

Jackson Street Sewer Detailed Investigation Timeline Description

1993 – GES installed 37 soil borings along sewer and performed aquifer testing.

1995 – GES collected 28 sediment samples from sewer outfall.

December 2002 – PADEP performed inspection and collected PID readings in area of 29th and McKean Streets in response to residents complaining about odors coming from sewer.
Results: Petroleum odor present, PID readings ranged from 0.0 to 40.0 ppm/Source of odor

2002 – Sunoco/Aquaterra performed subsurface evaluation around sewer. Installed 51 soil borings and installed 13 monitoring wells.
Results: Separate phase hydrocarbons existed in subsurface proximal to sewer.

February 2003 - PADEP performed inspection and collected PID readings in area of 29th and McKean Streets in response to residents complaining about odors coming from sewer.
Results: Petroleum odors present and PID readings ranged from 0.0 to 53.7 ppm.

Feb 2003 – PADEP/PWD performed sewer inspection.
Results: Overall structural condition of sewer was good. Observed evidence of hydrocarbons in the sewer using UV light. Increased amounts of hydrocarbons observed towards western portion of sewer.

March 2003 – Sunoco/Aquaterra performed sewer inspection.
Results: Mapped locations of hydrocarbon seep areas by use of UV light and visual observations inside sewer. Identified locations of other pipes tying into sewer.

June 2003 – Sunoco performed outfall modifications. Constructed underflow weir. Rerouted the discharge pipe from Klondike separator.

September 2003 – Sunoco automated skimmer and installed water curtain.

November 2003 - PADEP performed inspection and collected PID readings in area of 29th and McKean Streets, and 27th Street and Snyder Avenue in response to residents complaining about odors coming from sewer.

Results: Petroleum odors present and PID readings ranged from 0.0 to 239 ppm.

September 2004 – PADEP performed inspection and collected PID readings in area of Hollywood and 29th Streets in response to residents complaining about odors coming from sewer.

Results: Petroleum odors present and PID readings ranged from 0.0 to 22.4 ppm.

September 2005 – PADEP performed inspection and collected PID readings to follow up on reports of odors coming from Hollywood and McKean Streets.

Results: No odors or PID readings reported.

2005 – Sunoco blanked off pipe located at the western end of the sewer which was discharging NAPL into sewer.

Results: Reduced amount of sheening/NAPL observed at outfall.

December 2008 – Sunoco/Stantec completed air monitoring in vicinity of Jackson and McKean Streets using a PID.

Results: No PID readings recorded.

2004 – 2009 – Sunoco monitors system weekly and collects PID monitoring data east and west of the water curtain area.

June 2009 – Sunoco/Aquaterra collected 24-hour TO-15 summa air gas samples east and west of the water curtain alongside and inside of sewer.

Results:

- Benzene was above the PADEP residential indoor air screening criteria on-site in Manhole No. 3 sample location;
- No benzene detections east of water curtain or off-site in sewer near residential neighborhood;
- Chloroform was above the residential MSC west of water curtain (Manhole No. 1) and off-site in sewer (Manhole No. 6); and
- No exceedances of residential MSCs in background ambient air sample.

With the exception of the above mentioned compounds, all other TO-15 compounds were below their respective PADEP residential indoor air screening criteria. Methane was present in two of the samples (Manhole No. 3 and Manhole No. 6), however there is no PADEP residential indoor air screening criteria for methane.

Jackson Street Sewer Figures

1992 & 2002-2008

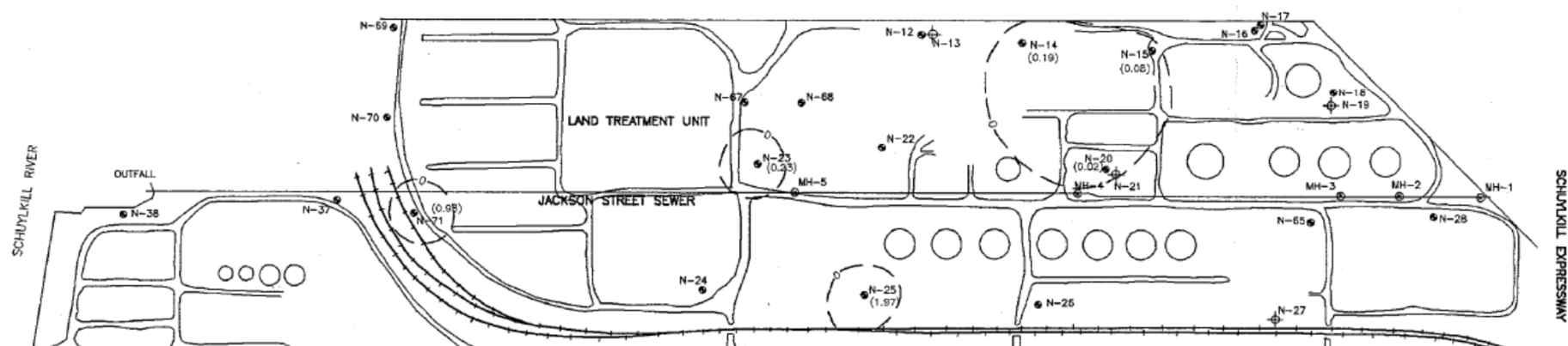
1993
Comprehensive
Remedial Plan

OBSERVATIONS

4 Plumes – N-71, N-23, N-25 and (N-14,N-15,N-20)

All but N-25 are less than 1 foot thick

GES GROUNDWATER AND
ENVIRONMENTAL SERVICES, INC.



LEGEND

- MONITORING WELLS
- ⊕ DEEP MONITORING WELLS
- ⊙ SEWER MANHOLES
- (0.02) NAPL THICKNESS (feet)
- - - NAPL CONTOUR (feet)

APPARENT NAPL THICKNESS
DECEMBER 1992 - GAUGING DATA
JACKSON STREET SEWER
SUN COMPANY, INC. (R & M)
PHILADELPHIA REFINERY
PHILADELPHIA, PENNSYLVANIA

NORTH	DATE: 14 SEPT 93	CK: SR	APPV: RD
	BY: MLB	REV: N-1292	
SCALE IN FEET IS APPROXIMATE		FIGURE 2	
0 320			

Point Breeze 4th
Quarter 2003
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OBSERVATIONS

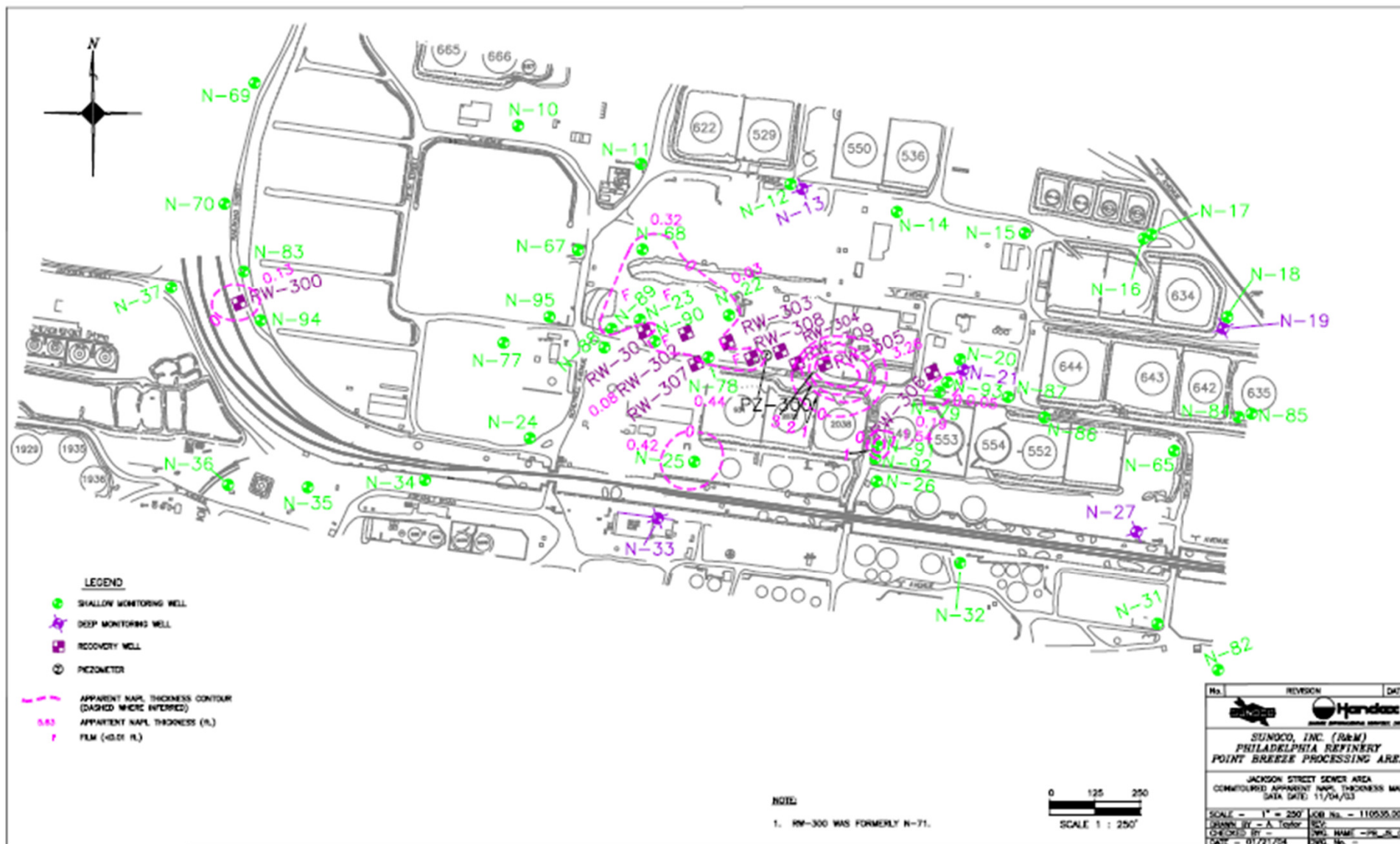
N-71 now RW-300 – Plume thickness decreased

N-23 – Plume size increased to N-68,N-89,RW-302,N-78,RW-308, and N-22 (thickness less than .5 ft)

N-14,N-15,N-20 – Plume is gone

N-25 – Plume thickness decreased to less than .5 ft

New Plume – Around RW-305 and RW-309 more than 3 ft thick



OBSERVATIONS

RW-300 – Plume thickness increased

N-23 – Plume size changed to N-68,N-89,RW-302,RW-301,N-78, and N-22 (thickness less than .5 ft)

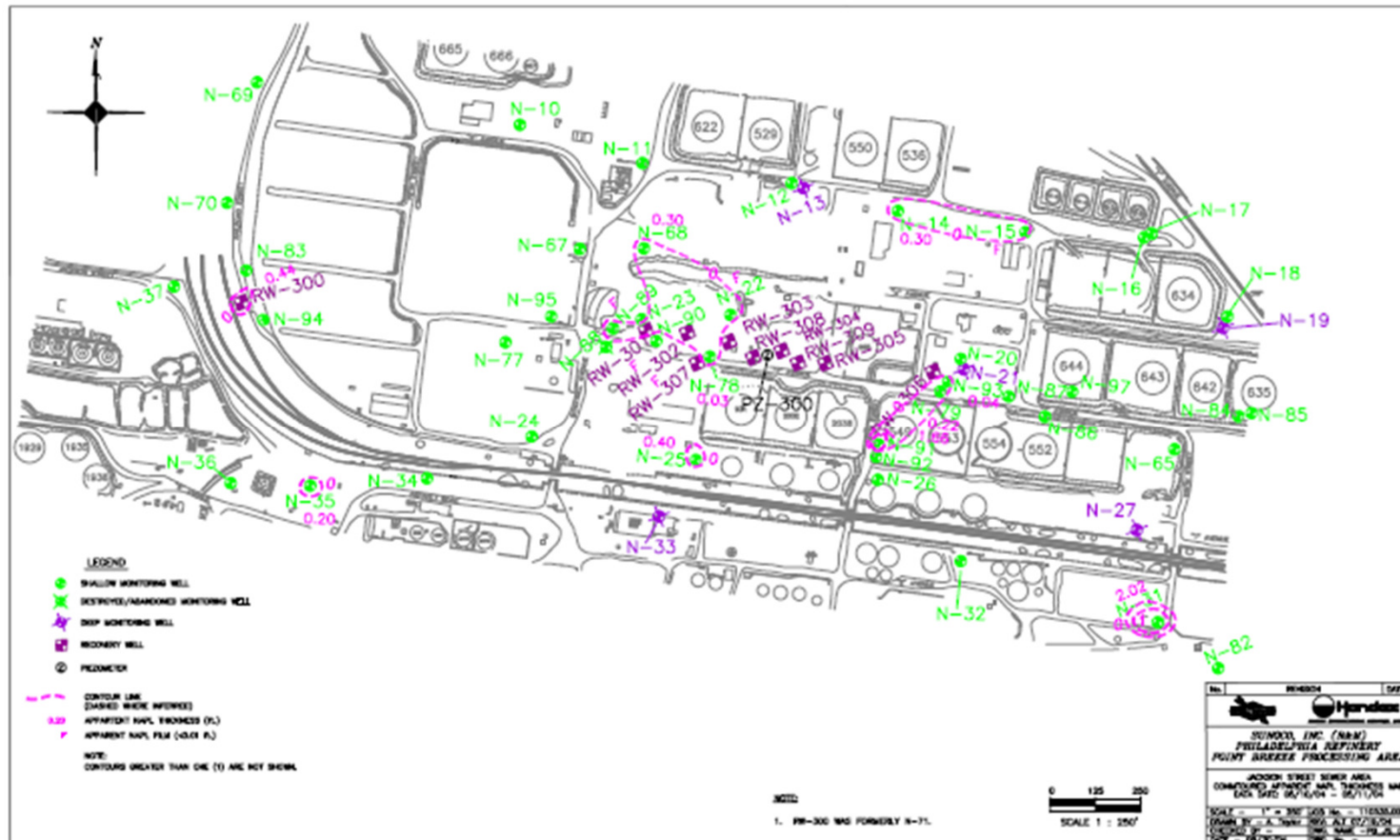
N-14,N-15,N-20 – Plume is back around N-14 and N-15 (less than .5 ft)

N-25 – Plume thickness decreased slightly

Plume around RW-305 and RW-309 is gone

New Plume around N-91, N-79, and N-93 (more than a foot thick around N-91)

New Plume around N-35 (less than .5ft thick)



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OBSERVATIONS

RW-300 – Plume thickness decreased to a film

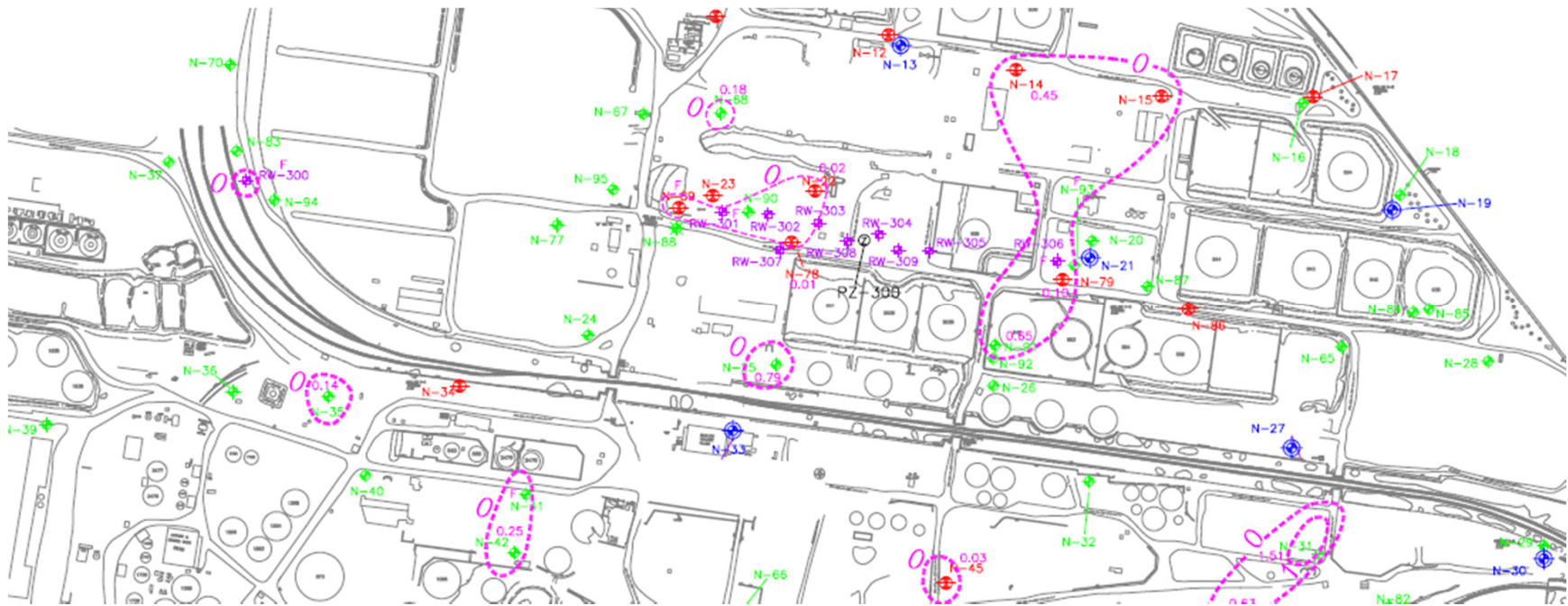
N-23 no longer in the plume – Plume size changed to N-89,N-90,RW-302,RW-301,N-78, and N-22
(thickness increased to less than 1 ft)

New Plume at N-68 – separated from the N-23 plume

2 Plumes combined to include N-91, N-79, RW-306, N-93, N-14 and N-15 (less than 1 ft thick)

N-25 – Plume thickness increased

Plume around N-35 thickness decreased slightly



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OBSERVATIONS

RW-300 – Plume thickness remained same

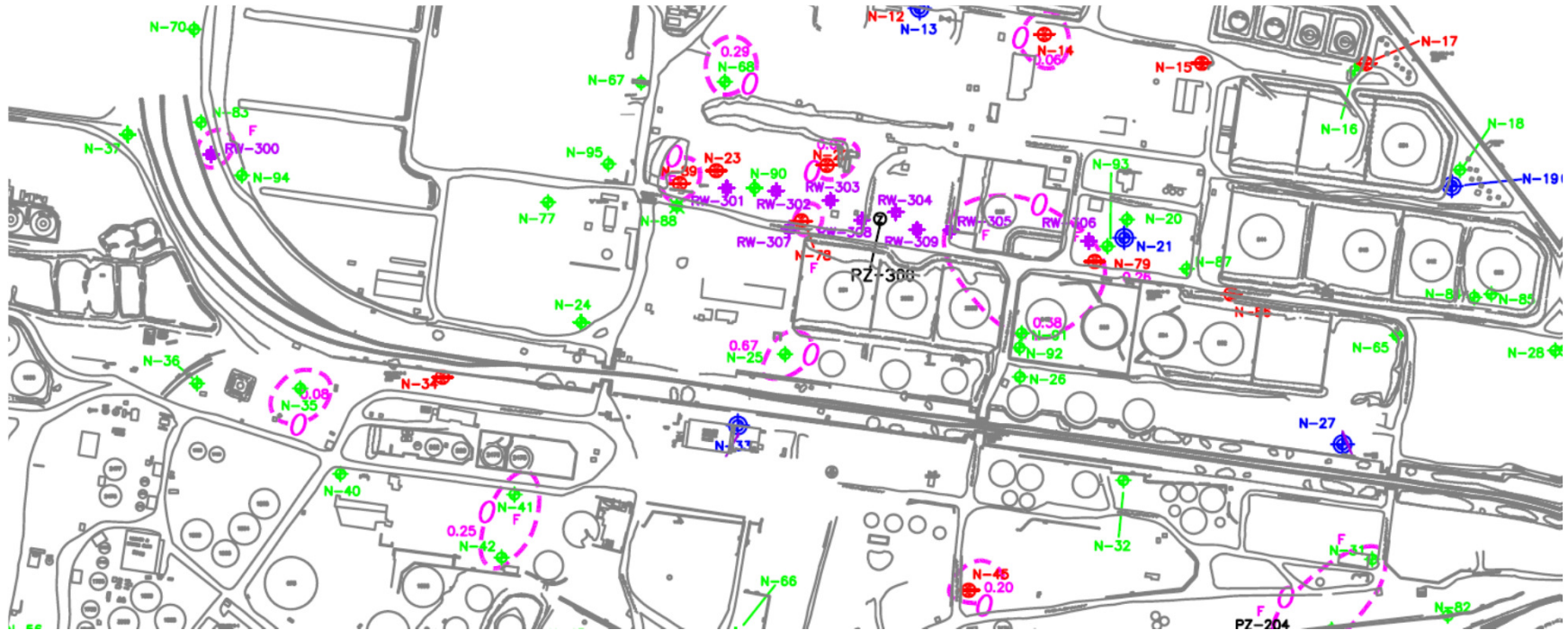
Plume size decreased to multiple separate plumes - N-89, N-78, and N-22 are all separate plumes (thickness decreased to film in N-89 and N-78, thickness less than .5 ft in N-22)

Plume at N-68 – increased in thickness slightly

Plume N-91, N-79, RW-306, N-93, N-14 and N-15 changed – Separate plume N-14 and Plume RW-305, RW-306, N-91 and N-79 thicknesses less than .5 ft

N-25 – Plume thickness decreased slightly

Plume around N-35 thickness decreased slightly



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OBSERVATIONS

RW-300 – Plume thickness increased slightly

Plume size changed to plumes - N-89, and N-78 and N-22 as a combined plume

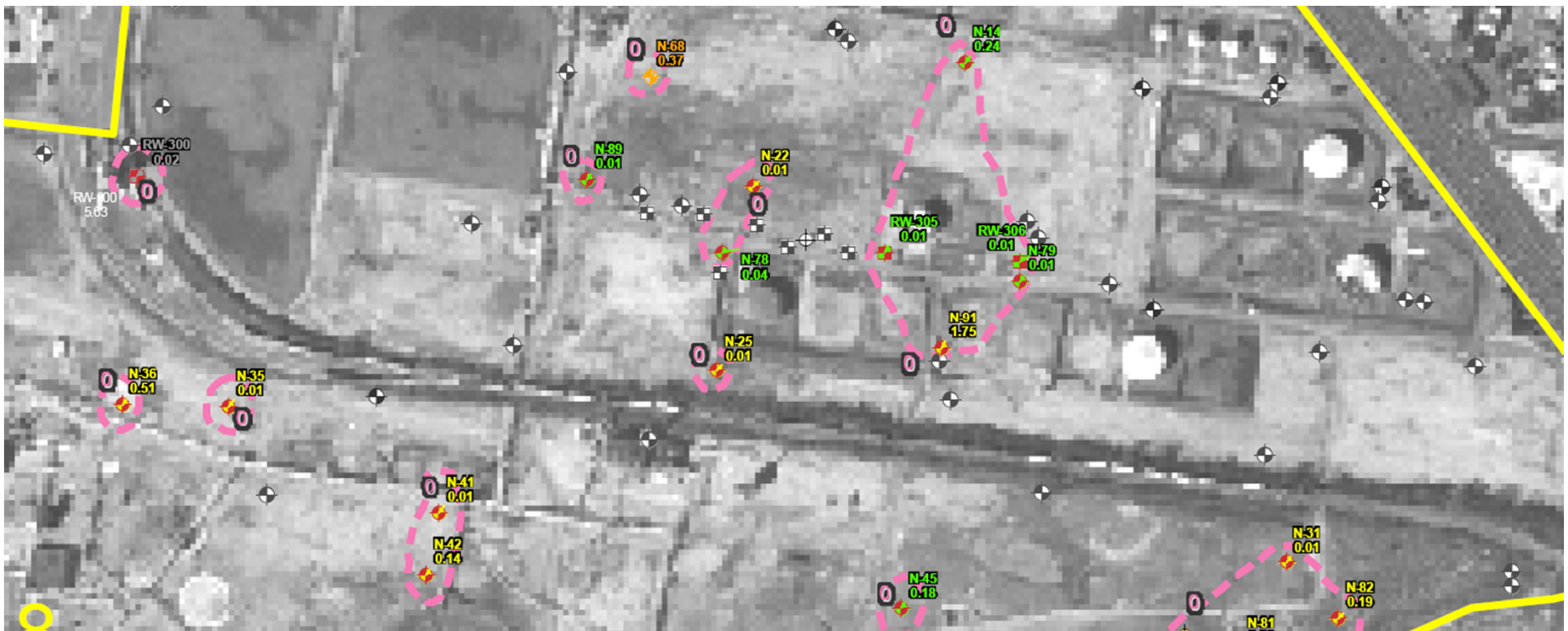
Plume at N-68 – increased in thickness slightly

Separate plume N-14 is now combined with Plume RW-305, RW-306, N-91 and N-79

N-25 – Plume thickness decreased slightly

Plume around N-35 thickness decreased slightly

New Plume around N-36 thickness around .5 ft



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OBSERVATIONS

RW-300 – Plume thickness increased slightly and now includes N-94 and N-83

Plume size changed to plumes - N-89 no longer plume, and N-78 and N-22 as separate plumes

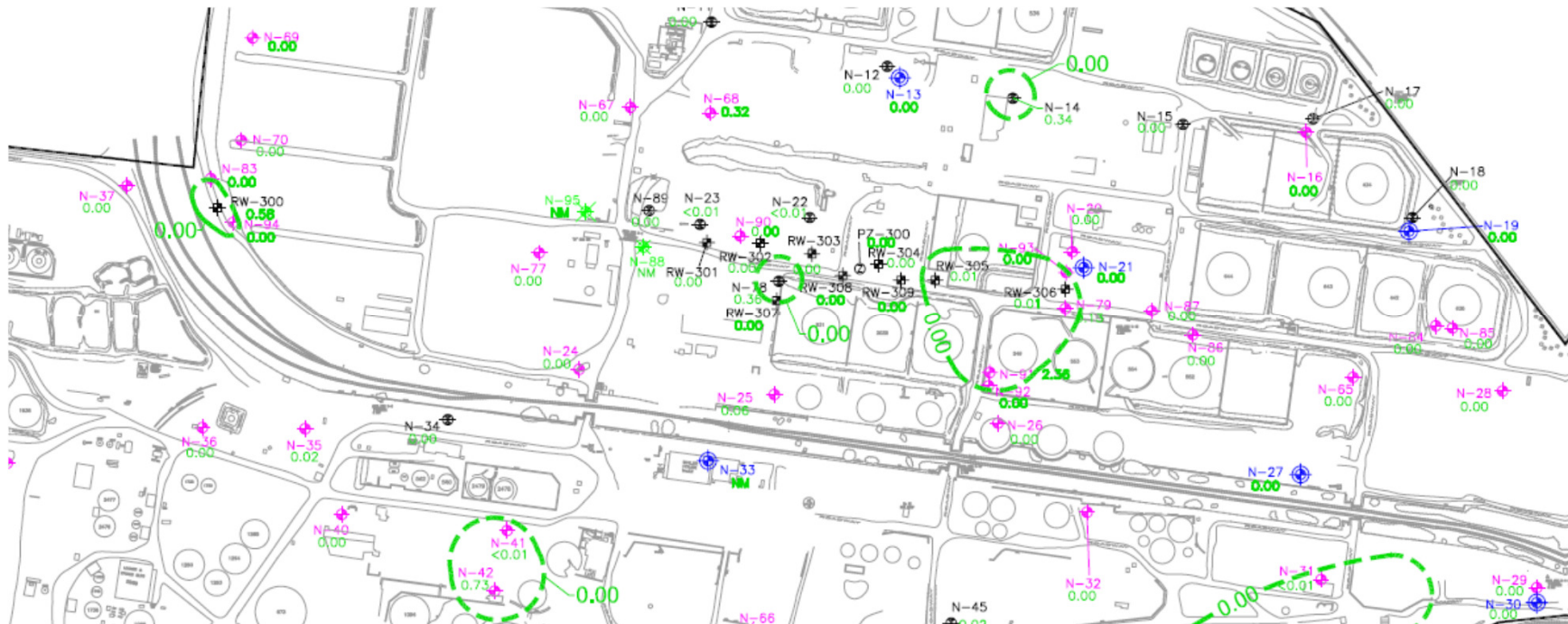
Plume at N-68 – decreased in thickness slightly

Separate plume N-14 is now separated from Plume RW-305, RW-306, N-91 and N-79 (now plume includes N-93, and N-92)

N-25 – Plume thickness increased slightly

Plume around N-35 thickness increased slightly

Plume around N-36 is now gone



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OBSERVATIONS

RW-300, N-94 and N-83– Plume thickness decreased slightly

N-89 plume returns and includes N-23

Plume N-78 thickness increased slightly

Plume N-22 is no longer present

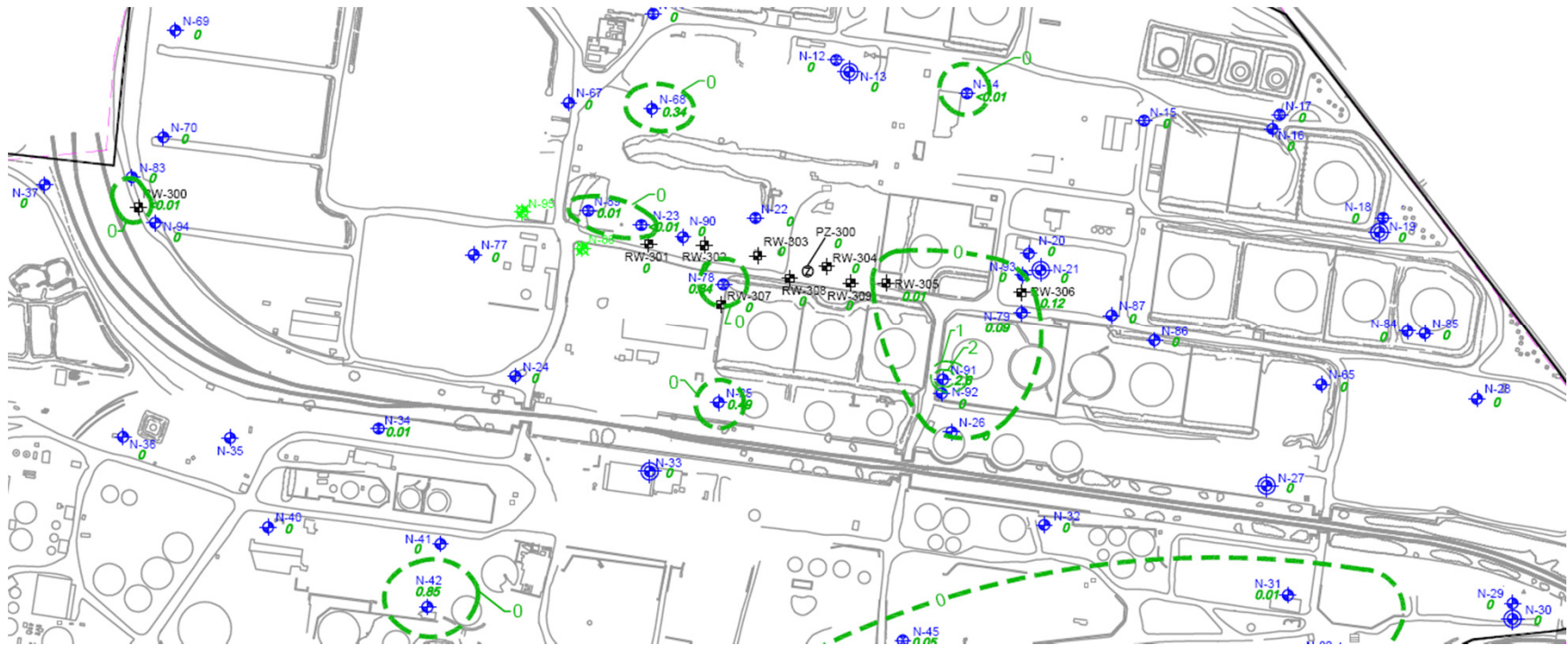
Plume at N-68 – increased in thickness slightly

Plume N-14 thickness decreased slightly

Plume RW-305, RW-306, N-91, N-79, N-93, and N-92 now includes N-26 and has increased in thickness

N-25 – Plume thickness increased

Plume around N-35 no longer present



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OBSERVATIONS

RW-300, N-94 and N-83– Plume thickness increased slightly but no longer includes N-83

N-89 plume no longer present

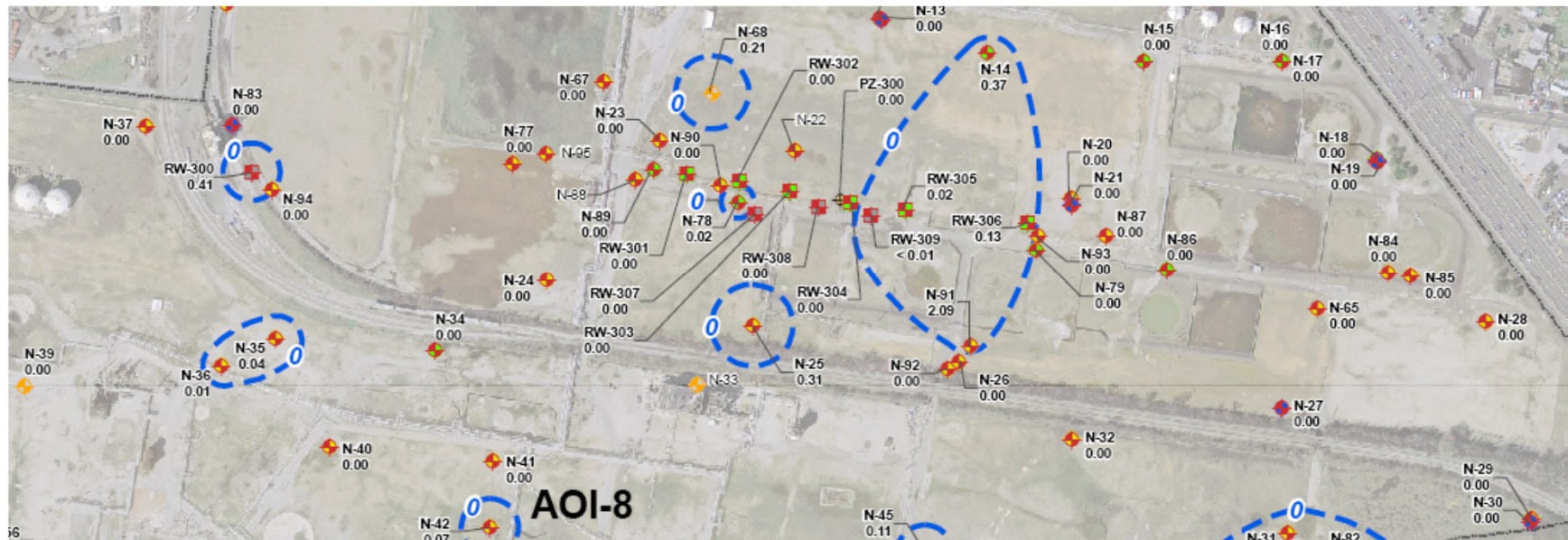
Plume N-78 thickness decreased slightly

Plume at N-68 – decreased in thickness slightly

Plume N-14 combined with Plume RW-305, RW-306, N-91, N-79, N-93 now includes RW-309 and no longer includes N-92 and N-26

N-25 – Plume thickness decreased

Plume around N-35 returns and includes N-36



OBSERVATIONS

RW-300 and N-94– Plume thickness increased slightly but no longer includes N-94

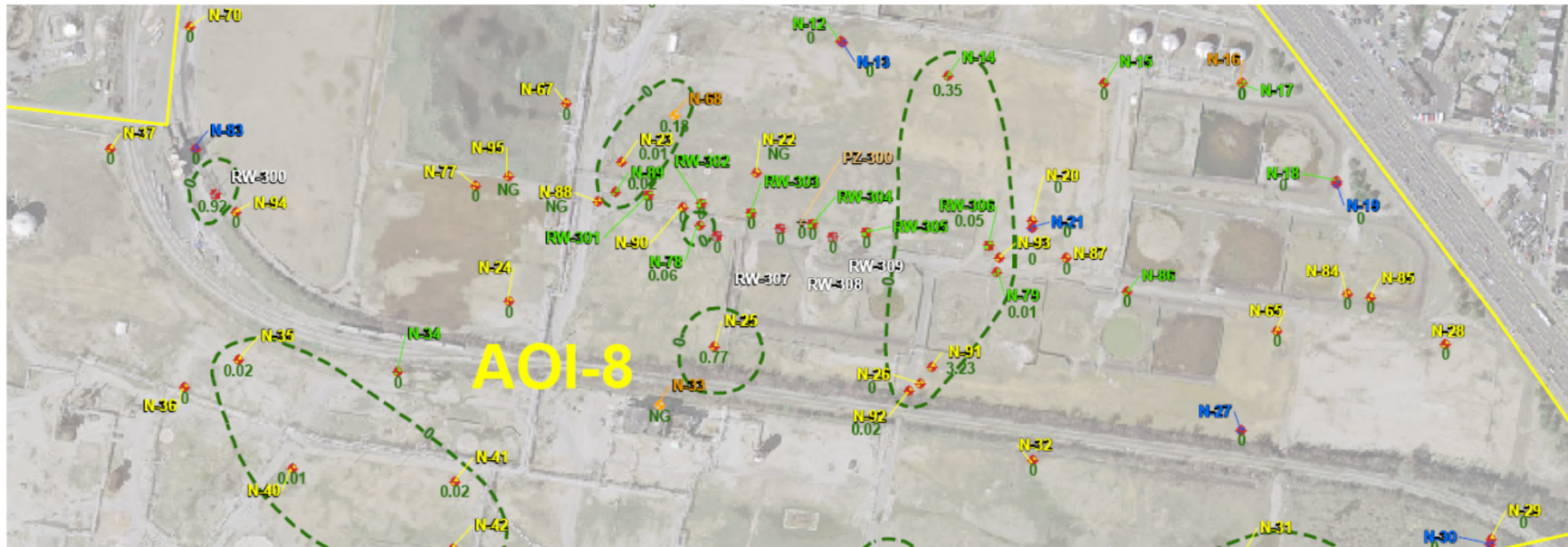
N-89 plume returns and now includes N-23 and N-68

Plume N-78 thickness increased slightly

Plume N-14 combined with Plume RW-305, RW-306, N-91, N-79, N-93 now includes RW-309 and no longer includes N-92 and N-26

N-25 – Plume thickness decreased

Plume around N-35 and N-36 increases and now includes – N-35, N-40, N-45 and N-42



CCR - Figure 5
data collected
11/2003

OBSERVATIONS

RW-300 Plume thickness decreased slightly

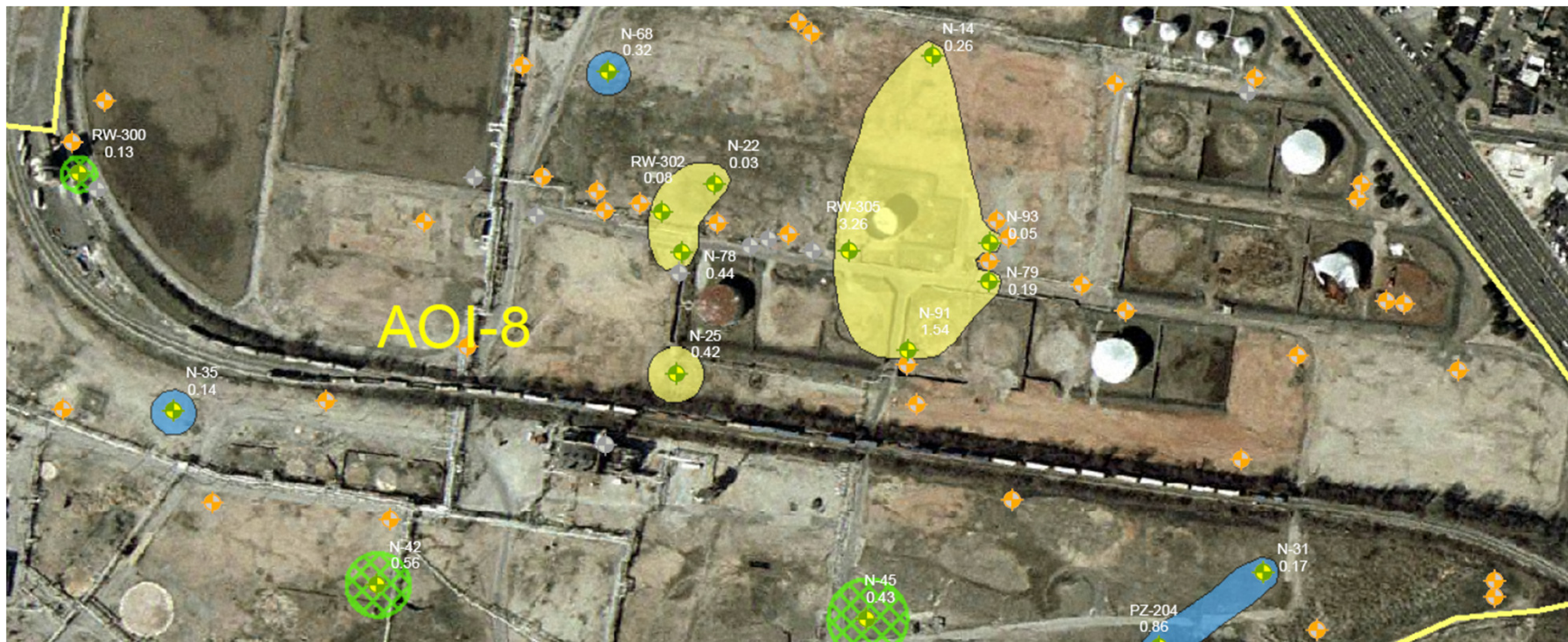
N-89, N-23 and N-68 plume no longer present

Plume N-78 now includes RW-302 and N-22

Plume N-14, RW-305, RW-306, N-91, N-79, N-93 RW-309 no longer includes RW-306, or RW-309

Plume N-25 thickness decreased slightly

Plume around N-35, N-36, N-35, N-40, N-45 and N-42 changes to 2 small plumes – plume N-35 and plume N-42



AOI 8 SCR - Figure 11

10/2003

OBSERVATIONS

RW-300 Plume thickness increased slightly

N-68 plume returns and includes N-107

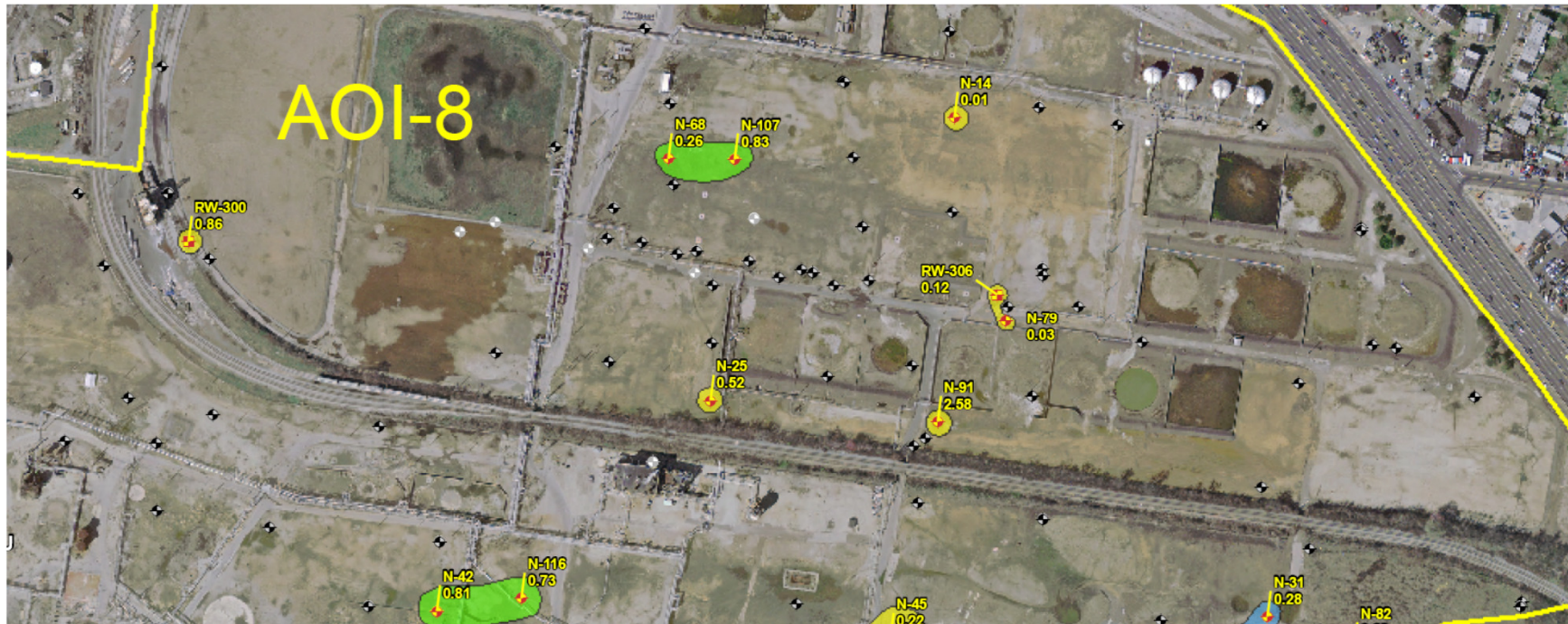
Plume N-78, RW-302 and N-22 no longer present

Plume N-14, RW-305, N-91, N-79, N-93 now broken into smaller plumes – Plume N-14, Plume N-91 and Plume N-79 and RW-306

Plume N-25 thickness increased slightly

Plume N-35 no longer present

Plume N-42 now includes N-116



North Yard – Bulkhead Area Figures

2002 - 2008

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OBSERVATIONS

5 separate plumes present
with thicknesses under .5ft

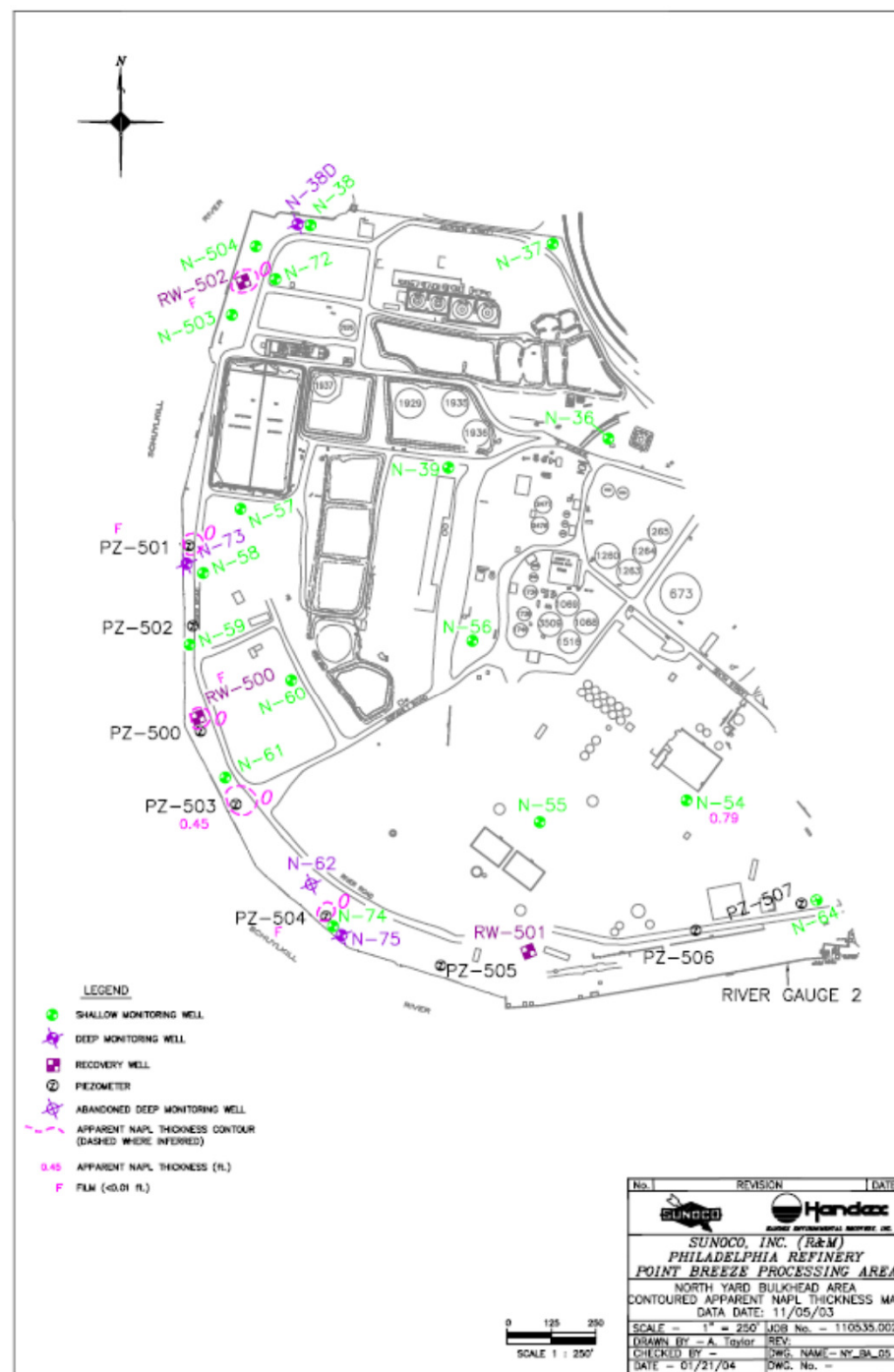
RW-502

PZ-501

RW-500

PZ-503

PZ-504



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OBSERVATIONS

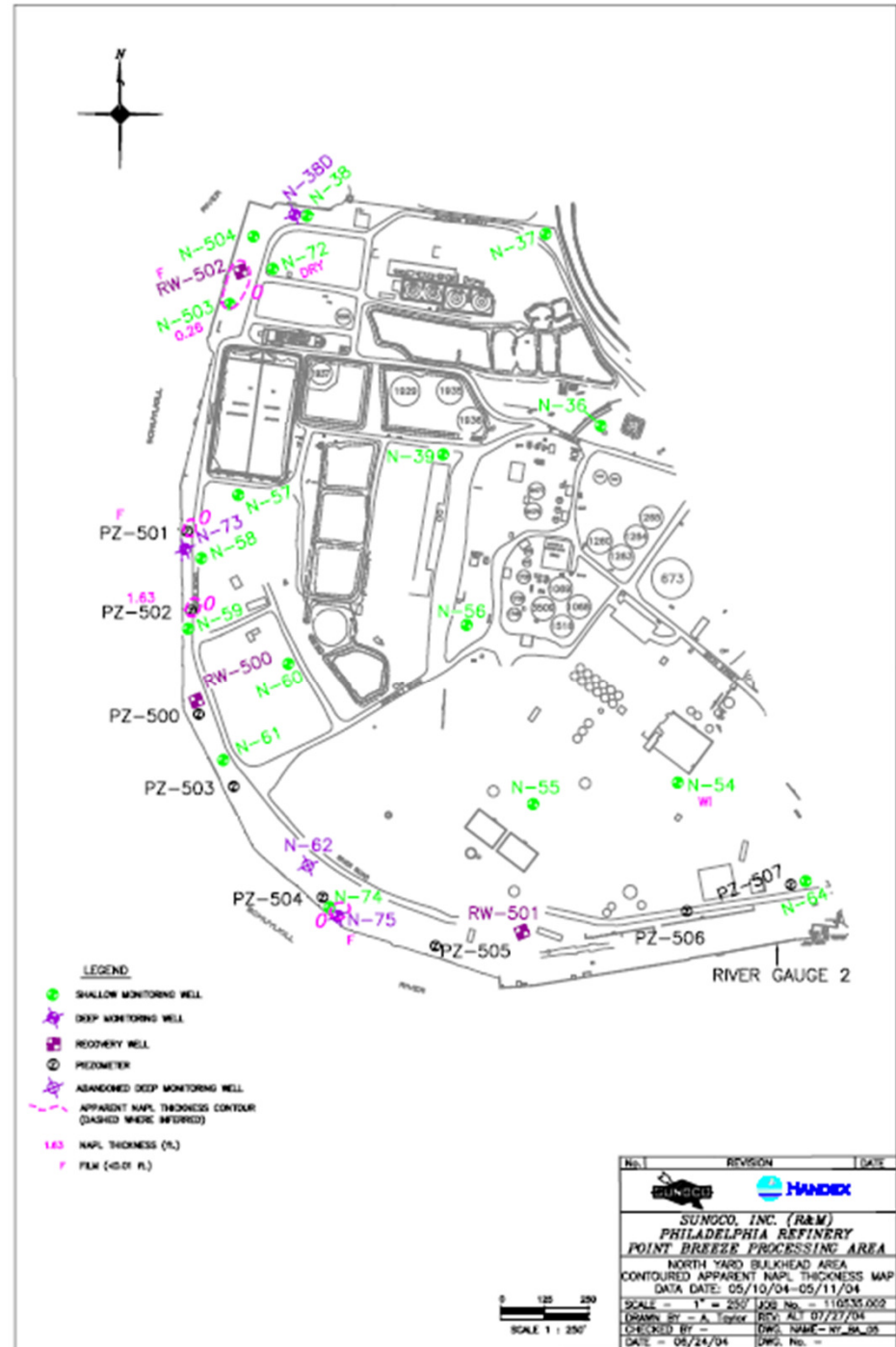
Plume RW-502 now includes N-503

PZ-501 – no change

RW-500 – no plume present

PZ-503 – no plume present

PZ-504 – no longer in plume –
plume moved to N-75



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OBSERVATIONS

Plume RW-502 and N-503 now includes
N-504

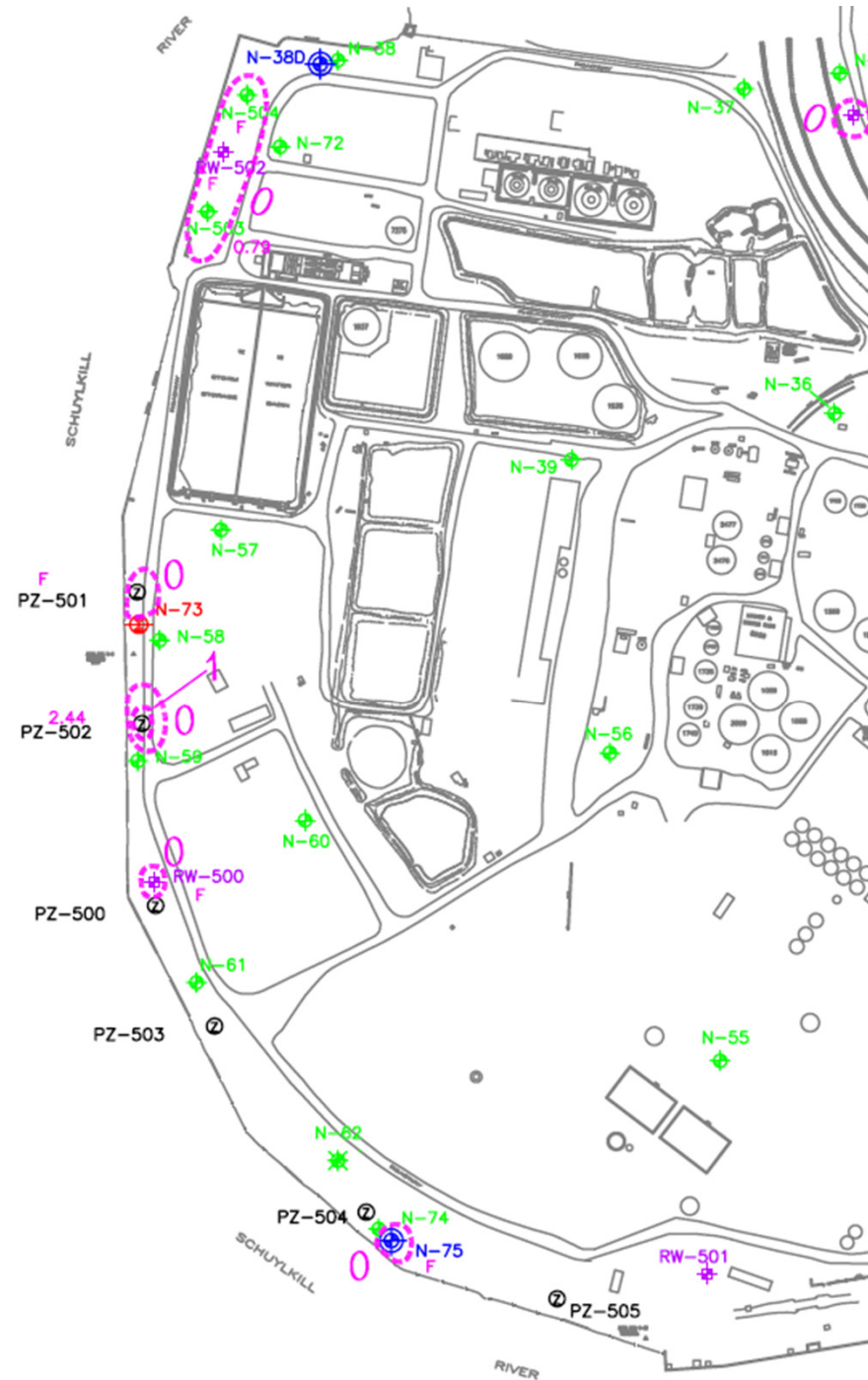
PZ-501 – no change

New Plume PZ-502 – more than 2 ft thick

RW-500 –plume returns

PZ-503 – no plume present

Plume N-75 – no change



OBSERVATIONS

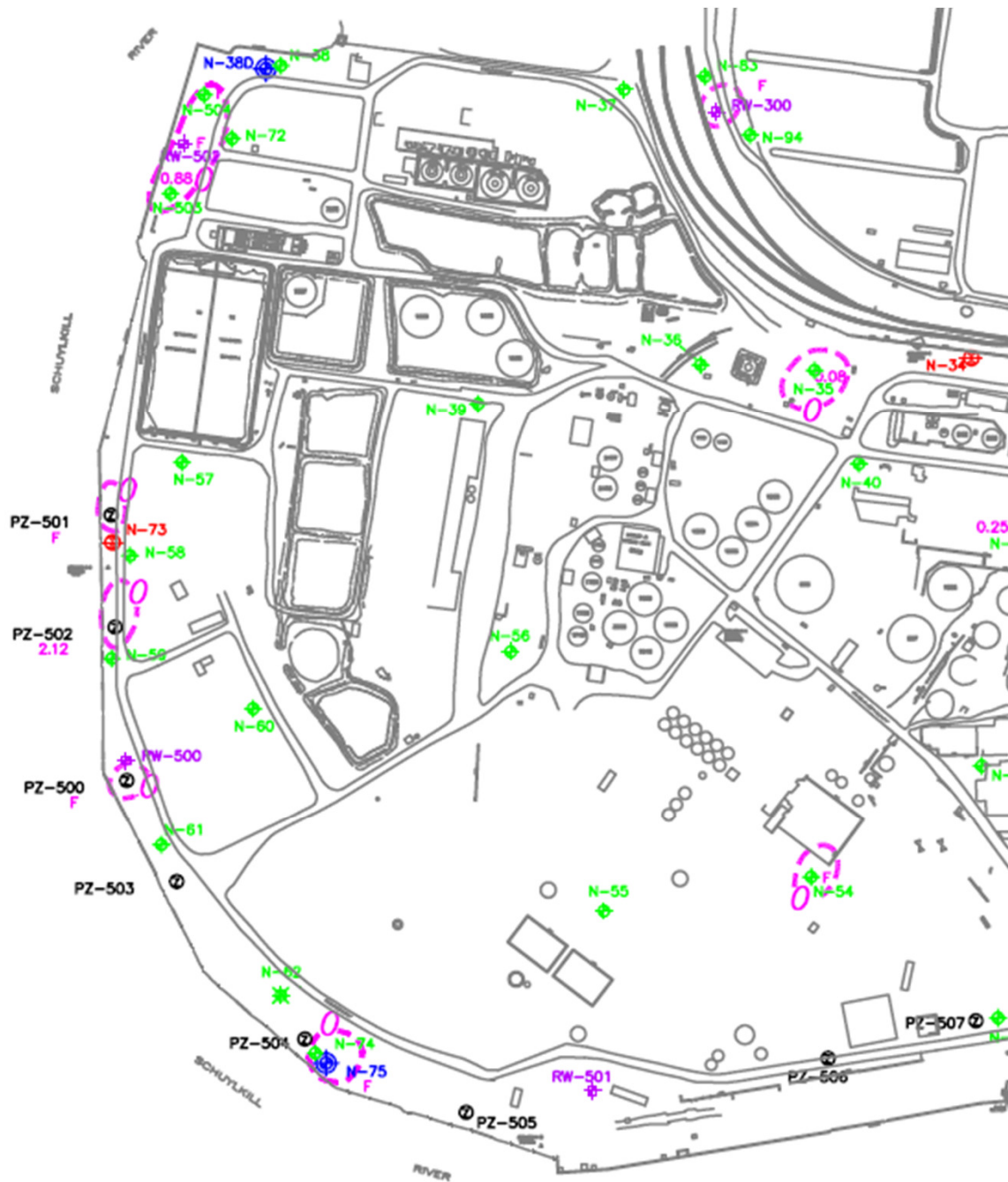
Plume RW-502, N-503 and N-504 –
thickness increased slightly

Plume PZ-501 – no change

Plume PZ-502 – still more than 2 ft thick

Plume RW-500 –plume moved to PZ-500

Plume N-75 – now includes N-74



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OBSERVATIONS

Plume RW-502, N-503 and N-504 –
thickness decreased slightly

Plume PZ-501 – no change

New Plume N-57

Plume PZ-502 – thickness decreased to
more than 1 ft thick

Plume PZ-500 – no longer present

Plume N-75, N-74 – decreased to only N-
75



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OBSERVATIONS

Plume RW-502, N-503 and N-504 – no longer includes N-504

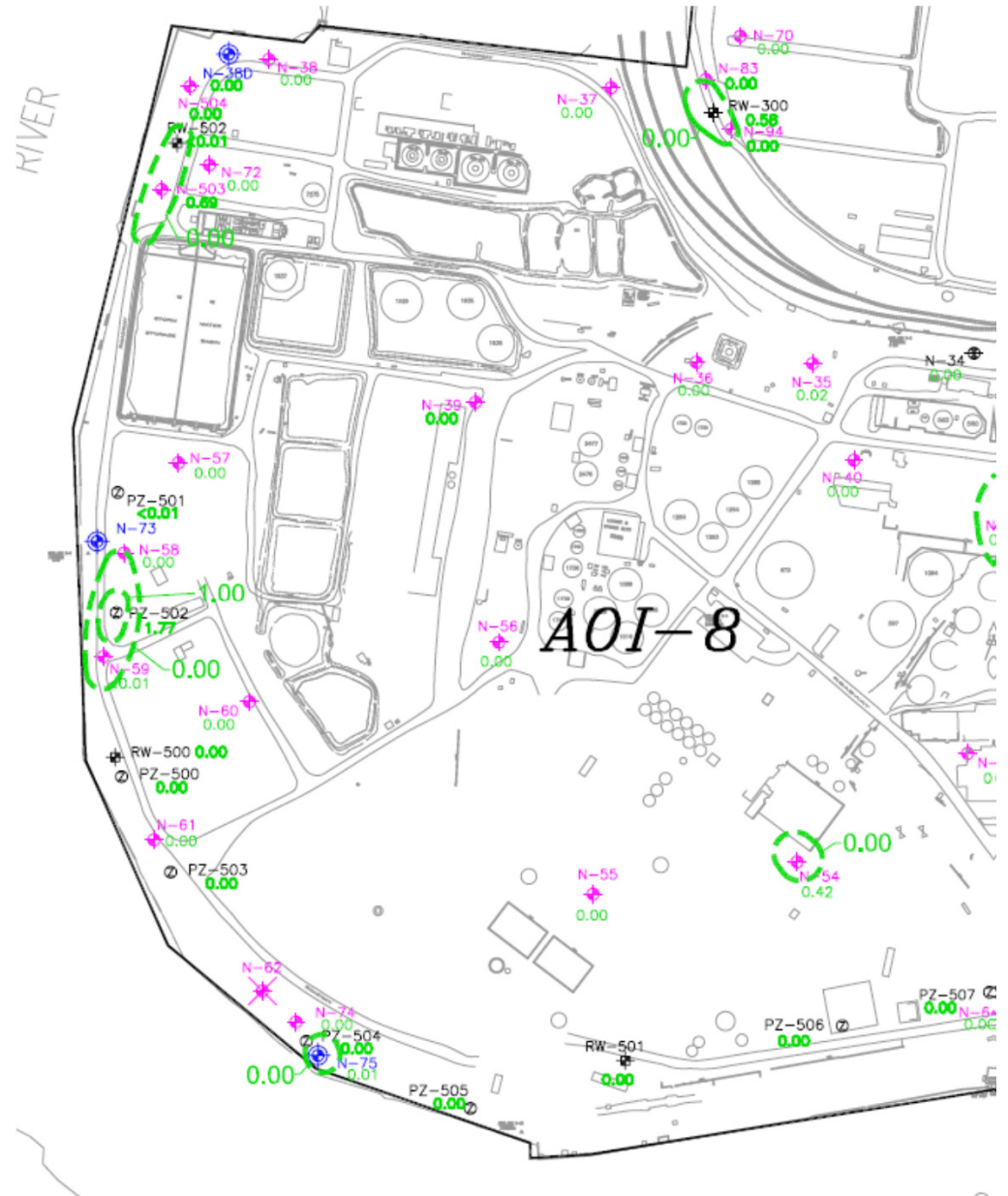
Plume PZ-501 – no longer present

Plume N-57 – no longer present

Plume PZ-502 – now includes N-58 and N-59

Plume PZ-500 – no longer present

Plume N-75 – no change



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OBSERVATIONS

Plume RW-502, N-503 - now includes N-504

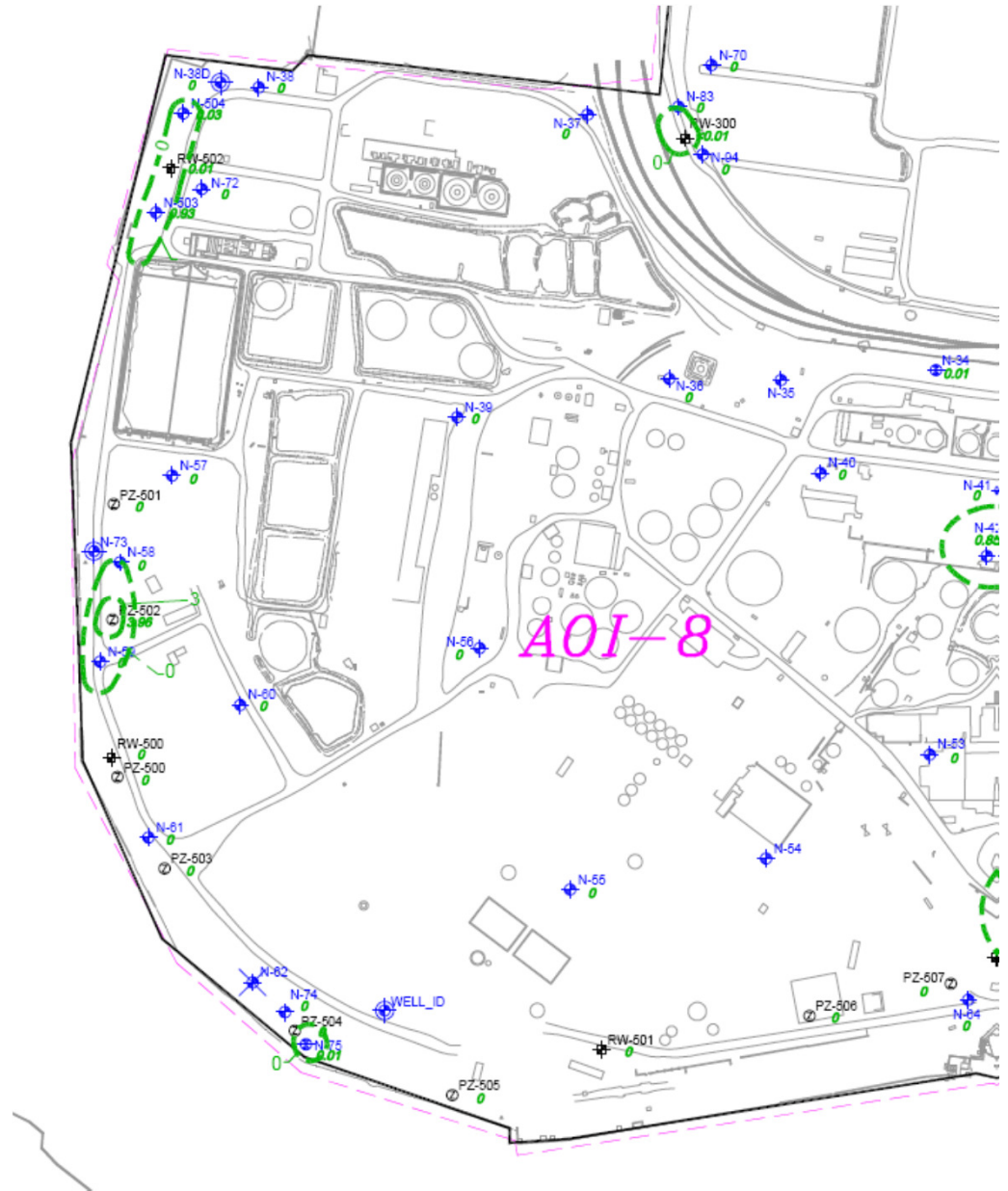
Plume PZ-501 – no longer present

Plume N-57 – no longer present

Plume PZ-502, N-58 and N-59- thickness increased to more than 3 ft

Plume PZ-500 – no longer present

Plume N-75 – no change



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OBSERVATIONS

Plume RW-502, N-503 and N-504 – no longer includes N-504

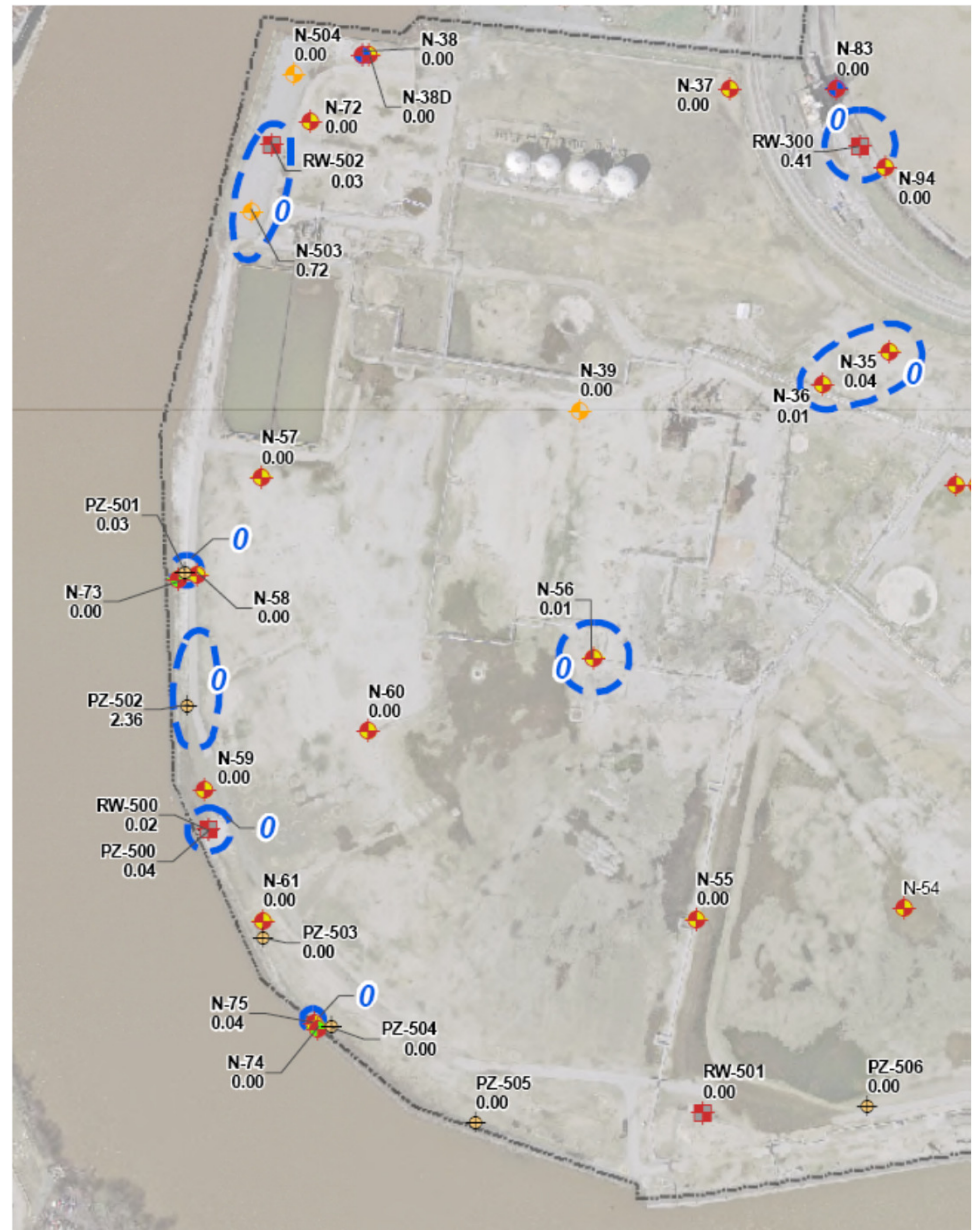
Plume PZ-501 – returned

Plume N-57 – no longer present

Plume PZ-502, N-58 and N-59- no longer includes N-58 and N-59

Plume PZ-500 – returned and includes RW-500

Plume N-75 – thickness increased slightly



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OBSERVATIONS

Plume RW-502, N-503 and N-504 – no
change

Plume PZ-501 – returned and now
includes N-73

Plume N-57 – no longer present

Plume PZ-502, N-58 and N-59 – no longer
includes N-58 or N-59

Plume PZ-500 – no longer present

Plume N-75 – slight increase in thickness



CCR - Figure 5
data collected
11/2003

OBSERVATIONS

Plume RW-502, N-503 and N-504 – no longer include RW-502 or N-504

Plume PZ-501 – no longer present

Plume N-57 – no longer present

Plume PZ-502 – increased in thickness slightly

Plume PZ-500 – no longer present

Plume N-75 – slight decrease in thickness



AOI 8
SCR -
Figure 11
10/2003

OBSERVATIONS

Plume N-503— now includes RW-502

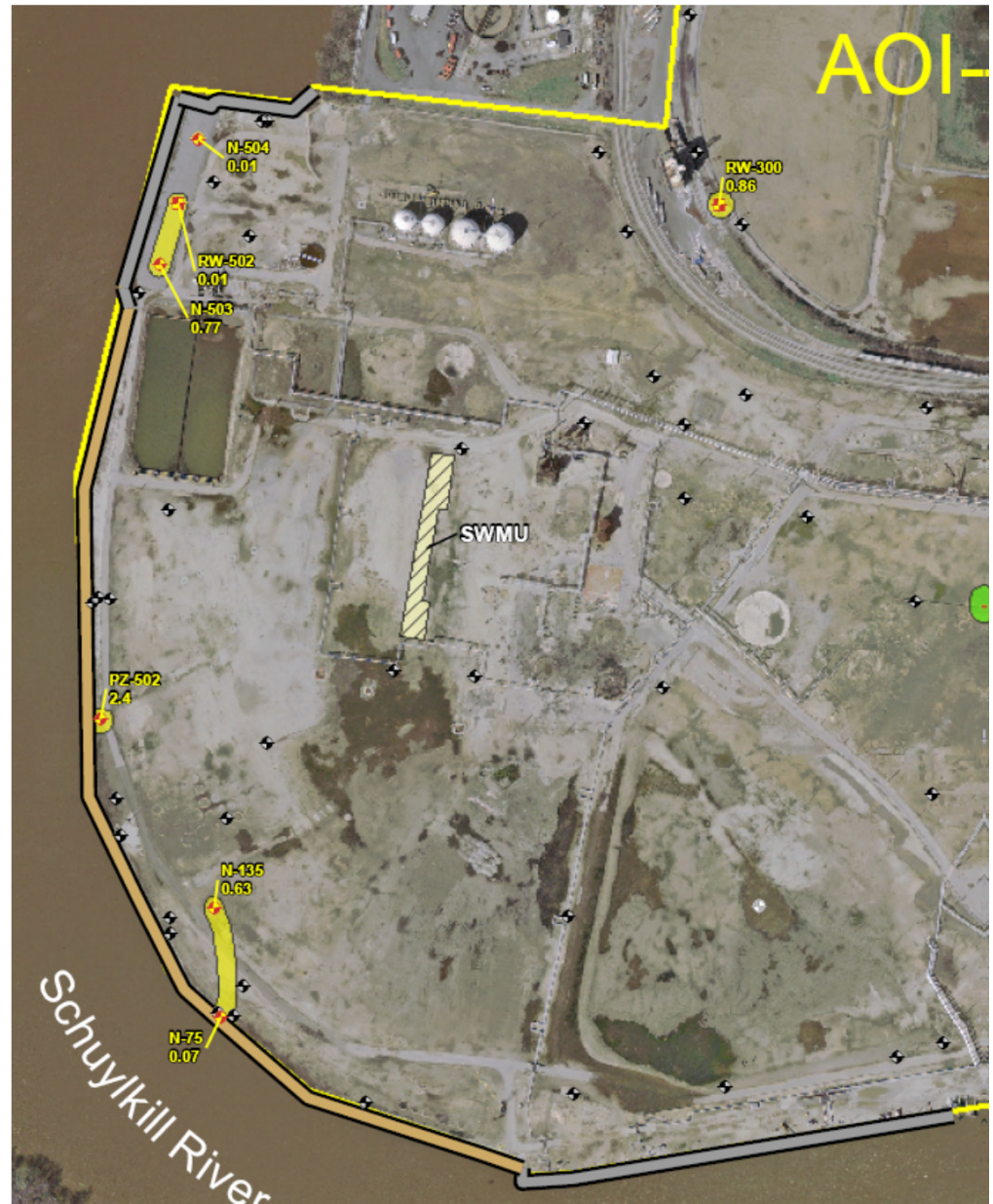
Plume PZ-501 – no longer present

Plume N-57 – no longer present

Plume PZ-502 – increased in thickness slightly

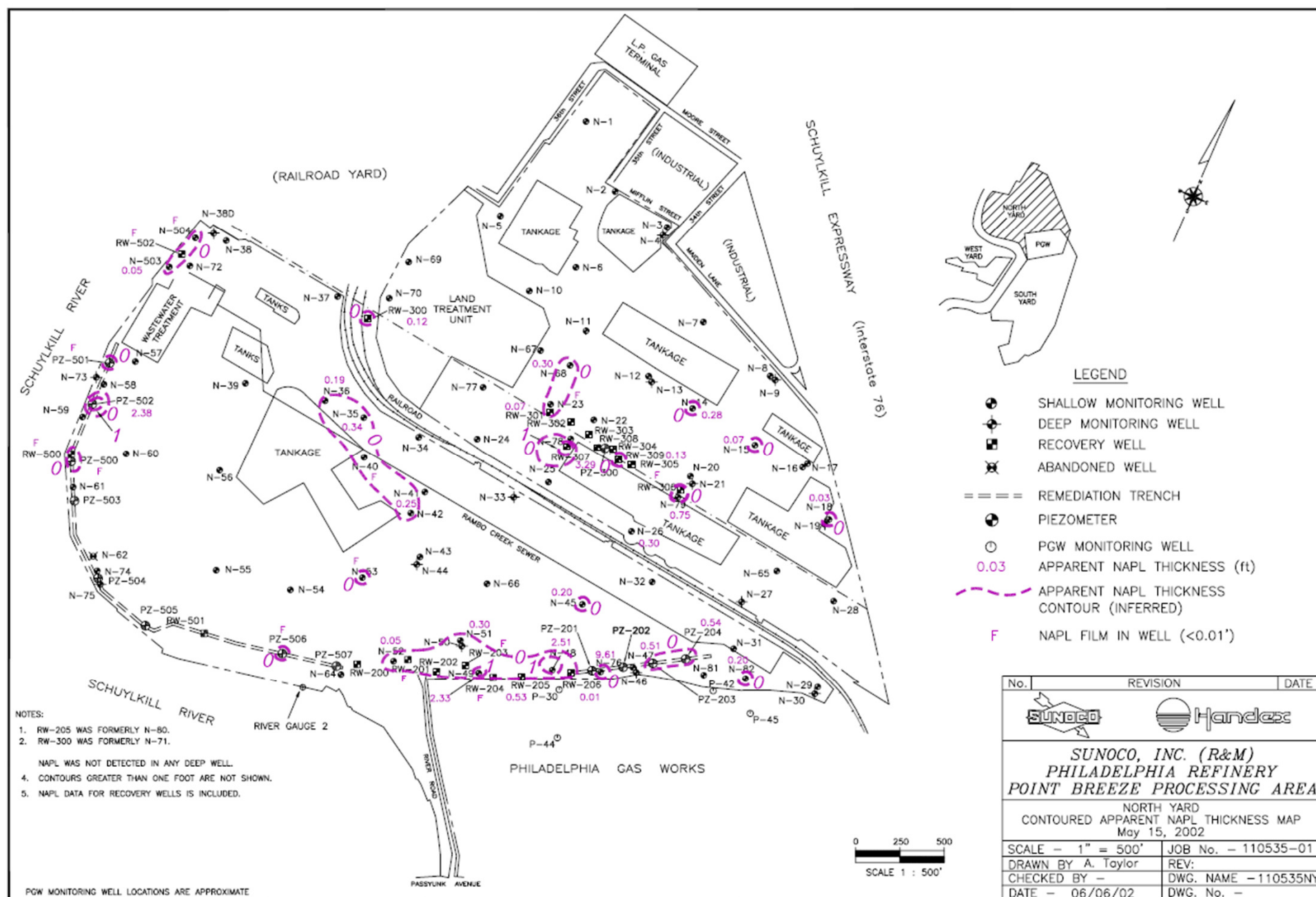
Plume PZ-500 – no longer present

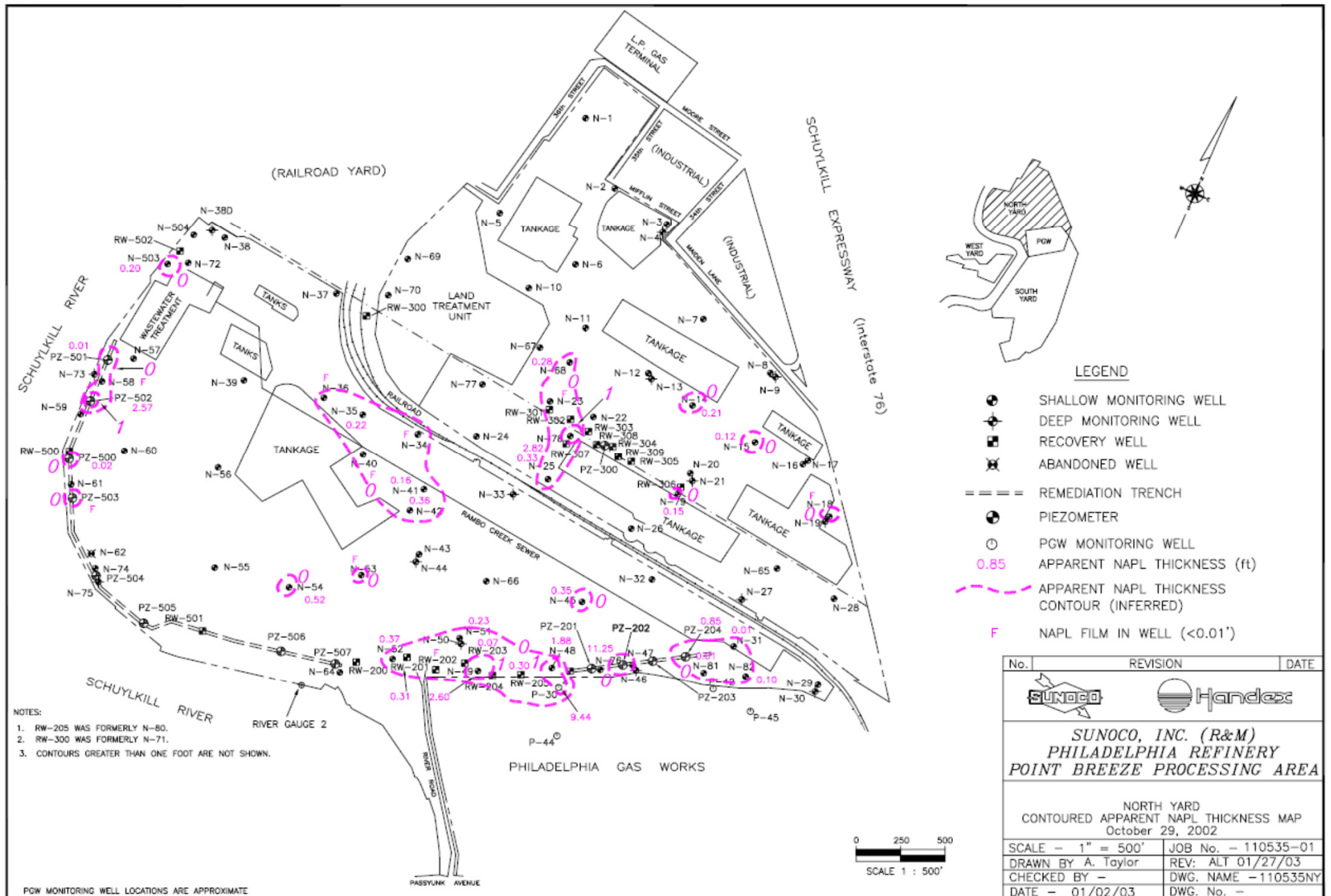
Plume N-75 – increase in thickness and now includes N-135

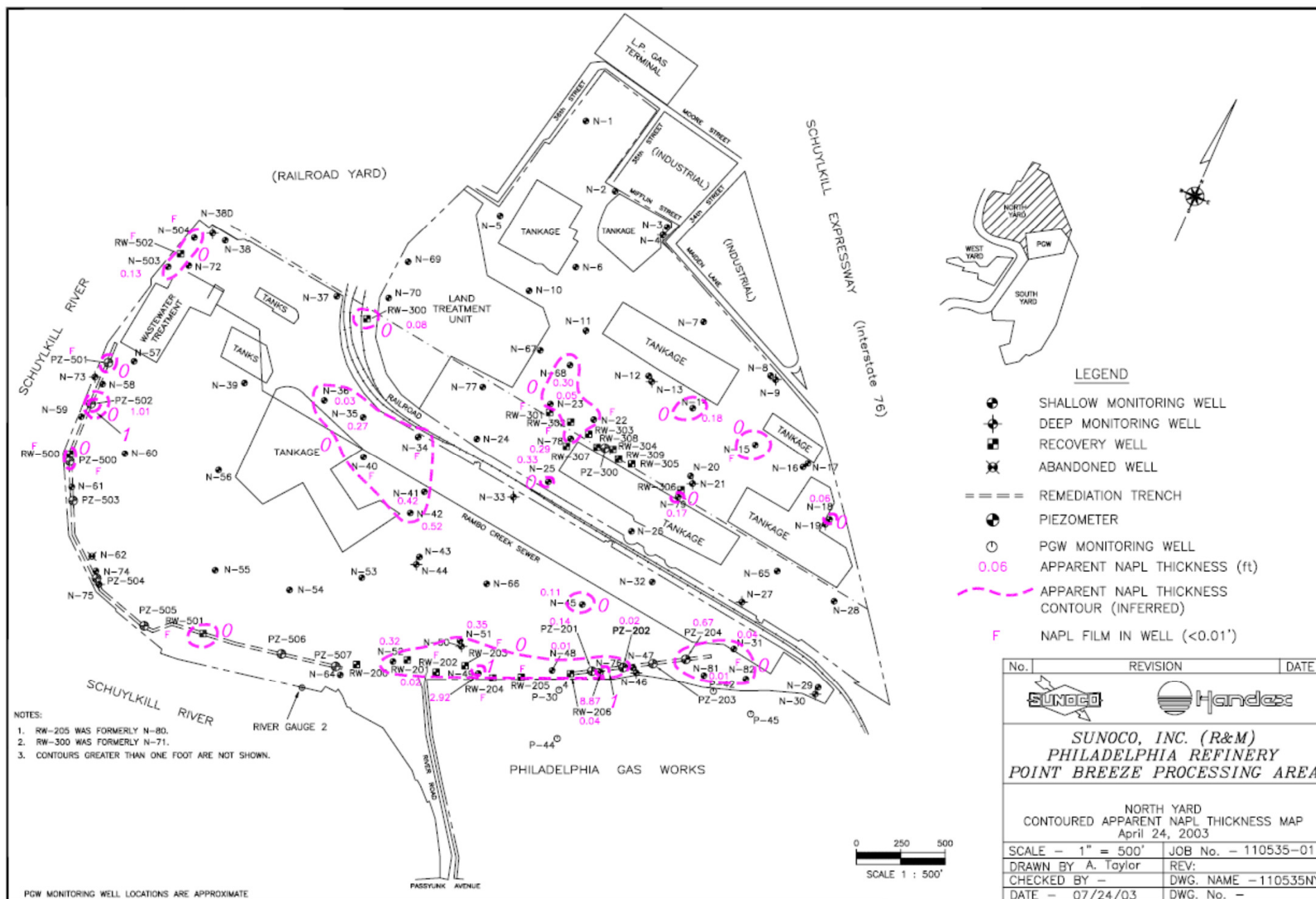


North Yard Figures

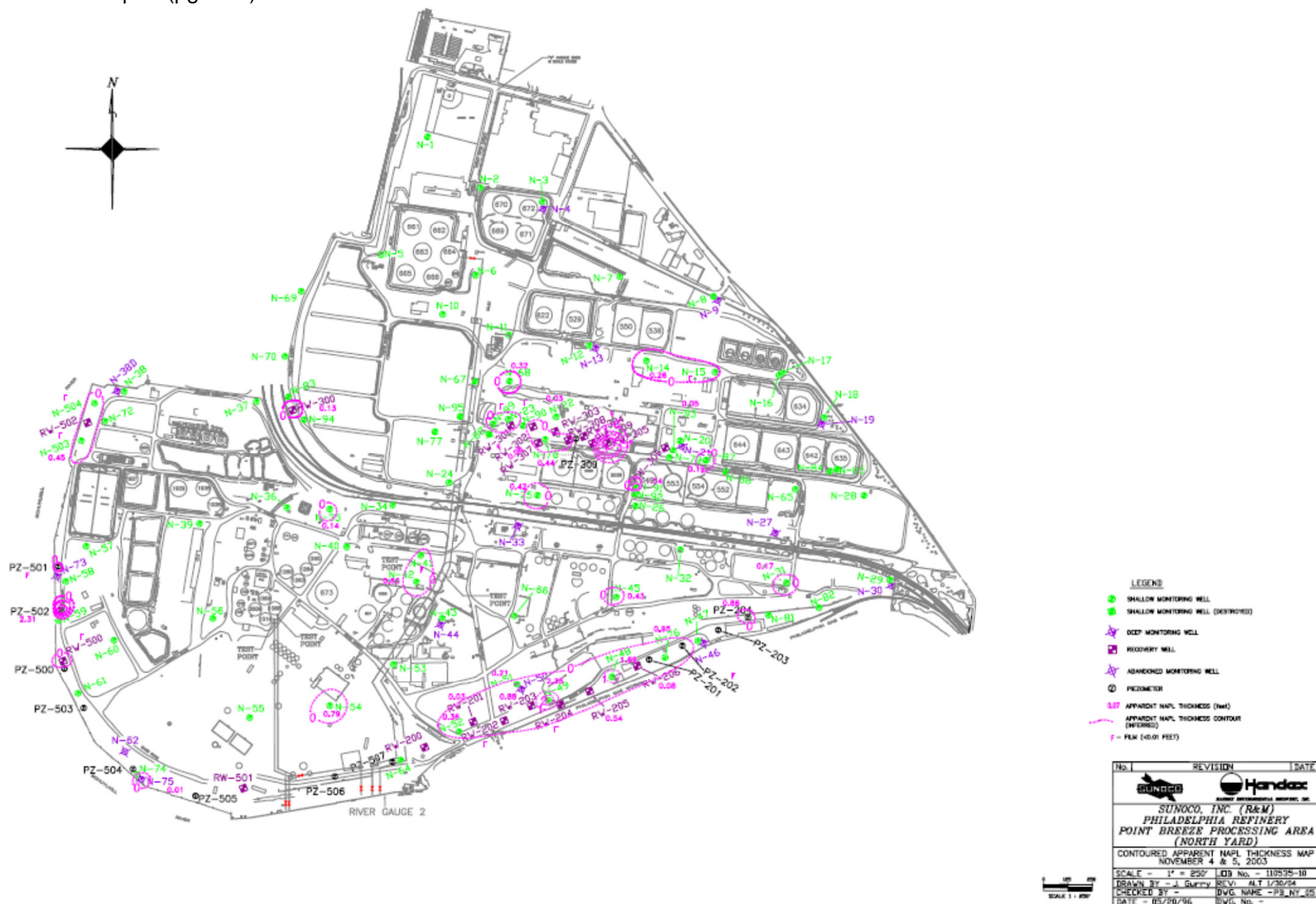
2002 - 2008

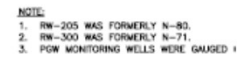






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LEGEND

- SHALLOW MONITORING WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- POW MONITORING WELL
- DESTROYED OR ABANDONED MONITORING WELL
- 0.75 APPARENT LNAPL THICKNESS (ft)
- APPARENT LNAPL THICKNESS CONTOUR (DASHED WHERE INTERPOLATED)
- FLUX (GAL/D) (ft)
- CONTOUR INTERVAL = 1.0 ft

NOTE: CONTOURS GREATER THAN ONE (1) FOOT ARE NOT SHOWN.



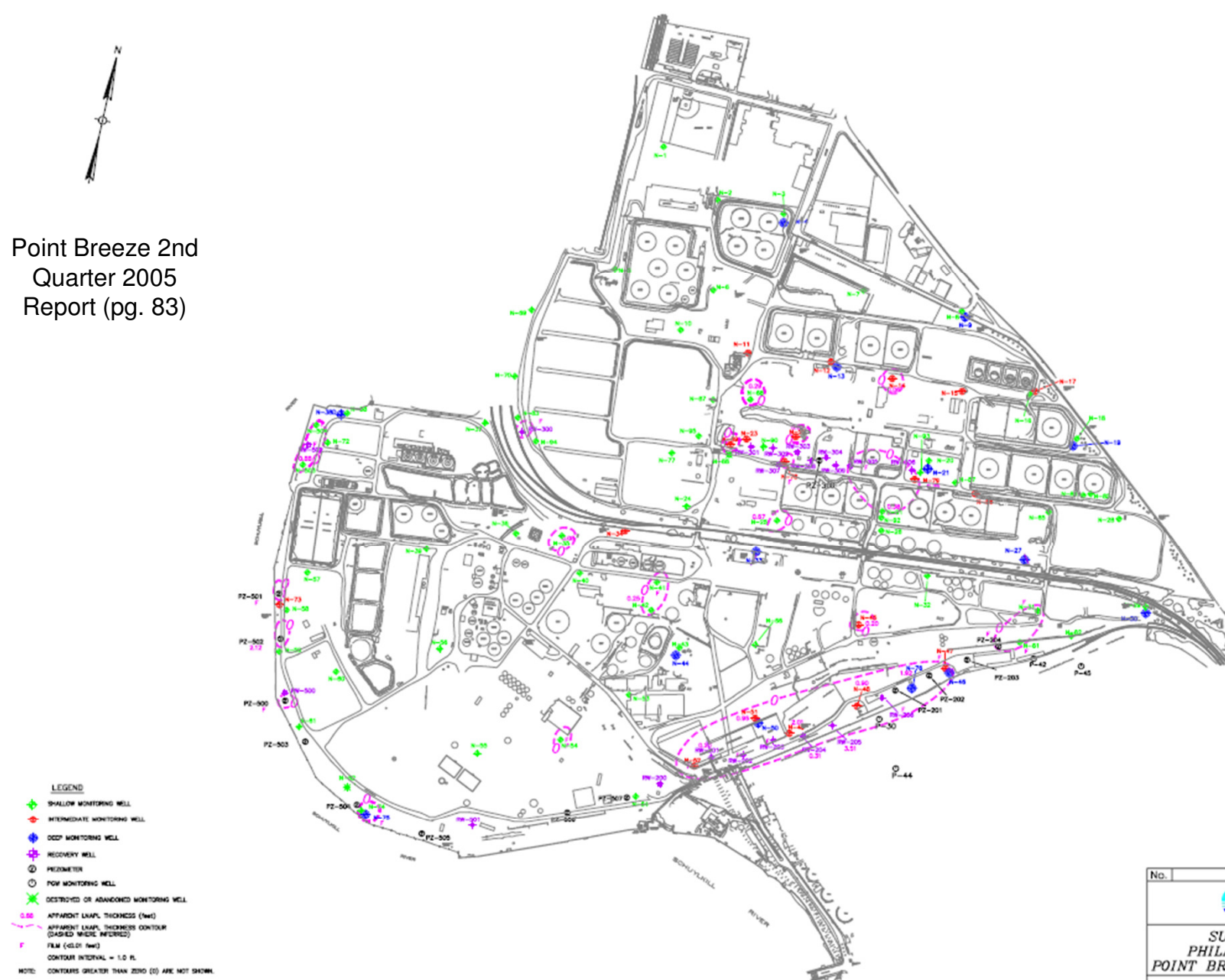
THIS DRAWING IS BASED ON DRAWING 9-0-0 BY SUN COMPANY, INC.
25031

0 200 400
SCALE 1" = 400'

No.	REVISION	DATE
 HANDEX		
SUN COMPANY, INC. PHILADELPHIA REFINERY POINT BREEZE PROCESSING AREA		
ACI-8 CONTOURED APPARENT LNAPL THICKNESS MAP DATA DATE: OCTOBER 4 - 7, 2004		
SCALE: 1" = 400'	JOB No. = 110535.002	
DRAWN: A. Taylor	REV.	
CHECKED BY:	DWG. NAME = ACI-8	
PL & RE	PL & RE	PL & RE



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LEGEND

- SHALLOW MONITORING WELL
- INTERMEDIATE MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- PREDOMINANT
- POW MONITORING WELL
- DESTROYED OR ABANDONED MONITORING WELL
- 0.55 APPARENT LNAPL THICKNESS (ft)
- APPARENT LNAPL THICKNESS CONTOUR (DASHED WHERE INFERRED)
- FILM (45.01 ft)
- CONTOUR INTERVAL = 1.0 ft

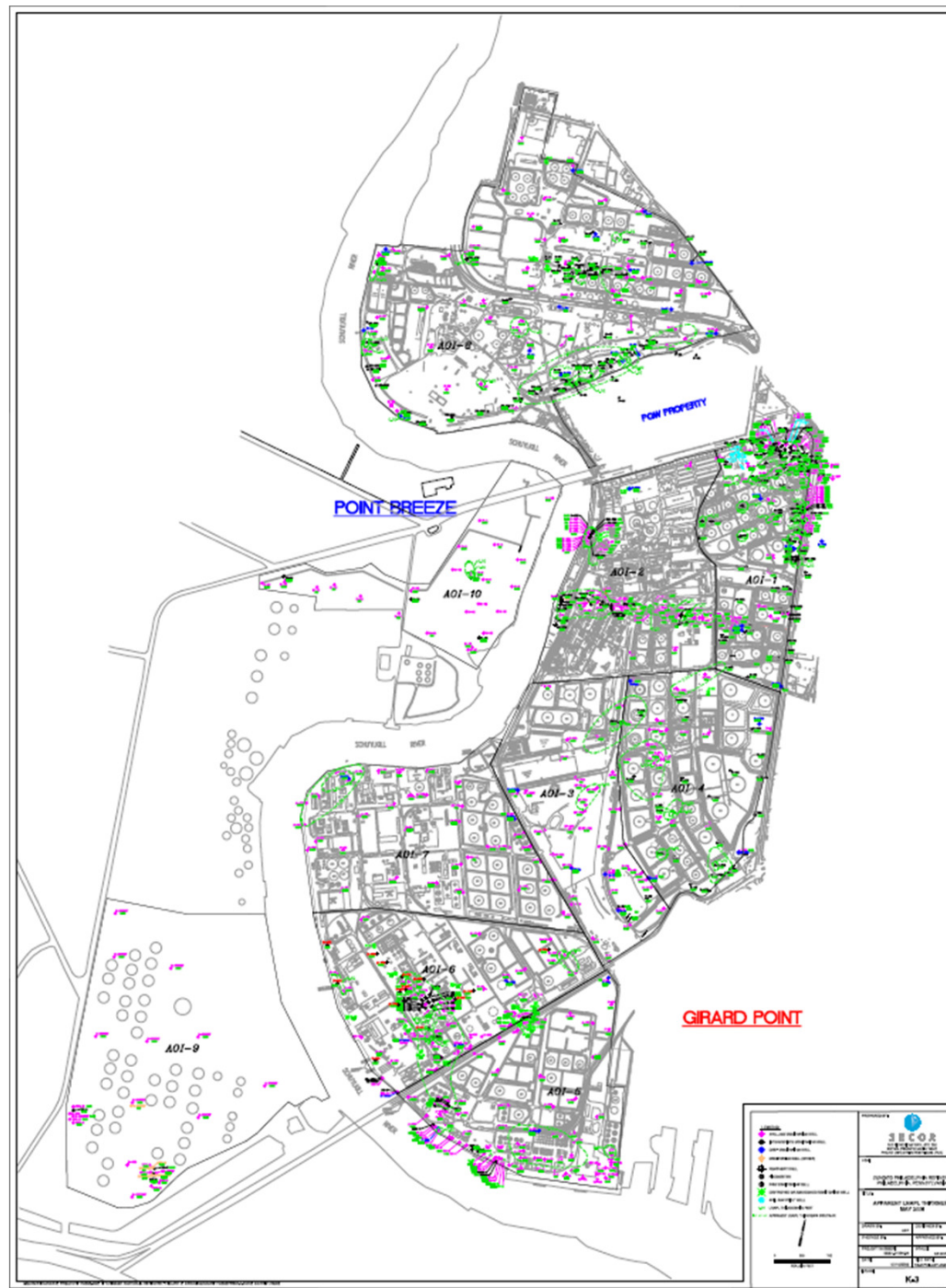
NOTE: CONTOURS GREATER THAN ZERO (0) ARE NOT SHOWN.

THIS DRAWING IS BASED ON DRAWING 9-0-0 25031 BY SUN COMPANY, INC.

0 200 400
SCALE 1" = 400'

No.	REVISION	DATE
SUN COMPANY, INC. PHILADELPHIA REFINERY POINT BREEZE PROCESSING AREA		
ADI-B CONTOURED APPARENT LNAPL THICKNESS MAP DATA DATE: MAY 2005		
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CHECKED BY -	DWG. NAME - ADI-B	
DATE	DWG. No. -	

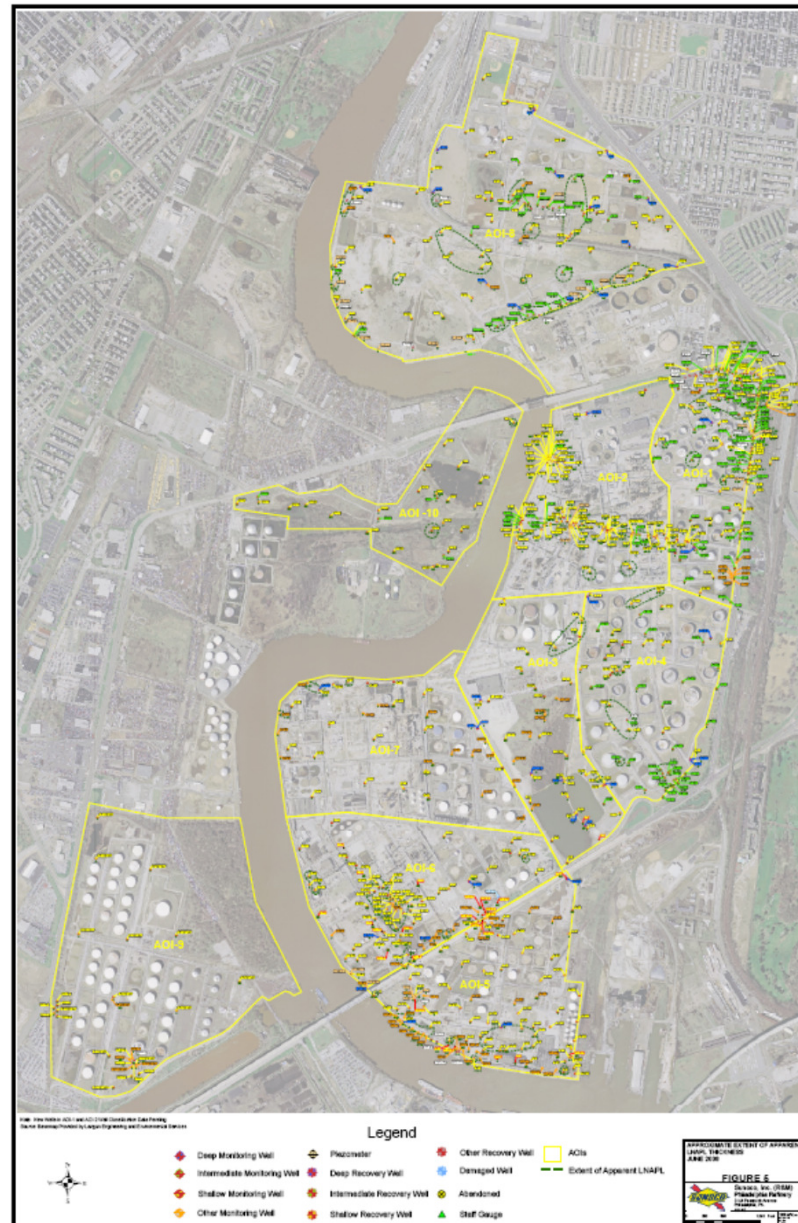




The map displays the PGW Property with various monitoring points marked by blue stars and green circles. A dashed green line outlines a specific area labeled 'AOI-8'. The map includes numerous labels for monitoring points, such as N-1, N-2, N-3, N-4, N-5, N-6, N-7, N-8, N-9, N-10, N-11, N-12, N-13, N-14, N-15, N-16, N-17, N-18, N-19, N-20, N-21, N-22, N-23, N-24, N-25, N-26, N-27, N-28, N-29, N-30, N-31, N-32, N-33, N-34, N-35, N-36, N-37, N-38, N-39, N-40, N-41, N-42, N-43, N-44, N-45, N-46, N-47, N-48, N-49, N-50, N-51, N-52, N-53, N-54, N-55, N-56, N-57, N-58, N-59, N-60, N-61, N-62, N-63, N-64, N-65, N-66, N-67, N-68, N-69, N-70, N-71, N-72, N-73, N-74, N-75, N-76, N-77, N-78, N-79, N-80, N-81, N-82, N-83, N-84, N-85, N-86, N-87, N-88, N-89, N-90, N-91, N-92, N-93, N-94, N-95, N-96, N-97, N-98, N-99, N-100, N-101, N-102, N-103, N-104, N-105, N-106, N-107, N-108, N-109, N-110, N-111, N-112, N-113, N-114, N-115, N-116, N-117, N-118, N-119, N-120, N-121, N-122, N-123, N-124, N-125, N-126, N-127, N-128, N-129, N-130, N-131, N-132, N-133, N-134, N-135, N-136, N-137, N-138, N-139, N-140, N-141, N-142, N-143, N-144, N-145, N-146, N-147, N-148, N-149, N-150, N-151, N-152, N-153, N-154, N-155, N-156, N-157, N-158, N-159, N-160, N-161, N-162, N-163, N-164, N-165, N-166, N-167, N-168, N-169, N-170, N-171, N-172, N-173, N-174, N-175, N-176, N-177, N-178, N-179, N-180, N-181, N-182, N-183, N-184, N-185, N-186, N-187, N-188, N-189, N-190, N-191, N-192, N-193, N-194, N-195, N-196, N-197, N-198, N-199, N-200, N-201, N-202, N-203, N-204, N-205, N-206, N-207, N-208, N-209, N-210, N-211, N-212, N-213, N-214, N-215, N-216, N-217, N-218, N-219, N-220, N-221, N-222, N-223, N-224, N-225, N-226, N-227, N-228, N-229, N-230, N-231, N-232, N-233, N-234, N-235, N-236, N-237, N-238, N-239, N-240, N-241, N-242, N-243, N-244, N-245, N-246, N-247, N-248, N-249, N-250, N-251, N-252, N-253, N-254, N-255, N-256, N-257, N-258, N-259, N-260, N-261, N-262, N-263, N-264, N-265, N-266, N-267, N-268, N-269, N-270, N-271, N-272, N-273, N-274, N-275, N-276, N-277, N-278, N-279, N-280, N-281, N-282, N-283, N-284, N-285, N-286, N-287, N-288, N-289, N-290, N-291, N-292, N-293, N-294, N-295, N-296, N-297, N-298, N-299, N-300, N-301, N-302, N-303, N-304, N-305, N-306, N-307, N-308, N-309, N-310, N-311, N-312, N-313, N-314, N-315, N-316, N-317, N-318, N-319, N-320, N-321, N-322, N-323, N-324, N-325, N-326, N-327, N-328, N-329, N-330, N-331, N-332, N-333, N-334, N-335, N-336, N-337, N-338, N-339, N-340, N-341, N-342, N-343, N-344, N-345, N-346, N-347, N-348, N-349, N-350, N-351, N-352, N-353, N-354, N-355, N-356, N-357, N-358, N-359, N-360, N-361, N-362, N-363, N-364, N-365, N-366, N-367, N-368, N-369, N-370, N-371, N-372, N-373, N-374, N-375, N-376, N-377, N-378, N-379, N-380, N-381, N-382, N-383, N-384, N-385, N-386, N-387, N-388, N-389, N-390, N-391, N-392, N-393, N-394, N-395, N-396, N-397, N-398, N-399, N-400, N-401, N-402, N-403, N-404, N-405, N-406, N-407, N-408, N-409, N-410, N-411, N-412, N-413, N-414, N-415, N-416, N-417, N-418, N-419, N-420, N-421, N-422, N-423, N-424, N-425, N-426, N-427, N-428, N-429, N-430, N-431, N-432, N-433, N-434, N-435, N-436, N-437, N-438, N-439, N-440, N-441, N-442, N-443, N-444, N-445, N-446, N-447, N-448, N-449, N-450, N-451, N-452, N-453, N-454, N-455, N-456, N-457, N-458, N-459, N-460, N-461, N-462, N-463, N-464, N-465, N-466, N-467, N-468, N-469, N-470, N-471, N-472, N-473, N-474, N-475, N-476, N-477, N-478, N-479, N-480, N-481, N-482, N-483, N-484, N-485, N-486, N-487, N-488, N-489, N-490, N-491, N-492, N-493, N-494, N-495, N-496, N-497, N-498, N-499, N-500, N-501, N-502, N-503, N-504, N-505, N-506, N-507, N-508, N-509, N-510, N-511, N-512, N-513, N-514, N-515, N-516, N-517, N-518, N-519, N-520, N-521, N-522, N-523, N-524, N-525, N-526, N-527, N-528, N-529, N-530, N-531, N-532, N-533, N-534, N-535, N-536, N-537, N-538, N-539, N-540, N-541, N-542, N-543, N-544, N-545, N-546, N-547, N-548, N-549, N-550, N-551, N-552, N-553, N-554, N-555, N-556, N-557, N-558, N-559, N-560, N-561, N-562, N-563, N-564, N-565, N-566, N-567, N-568, N-569, N-570, N-571, N-572, N-573, N-574, N-575, N-576, N-577, N-578, N-579, N-580, N-581, N-582, N-583, N-584, N-585, N-586, N-587, N-588, N-589, N-590, N-591, N-592, N-593, N-594, N-595, N-596, N-597, N-598, N-599, N-600, N-601, N-602, N-603, N-604, N-605, N-606, N-607, N-608, N-609, N-610, N-611, N-612, N-613, N-614, N-615, N-616, N-617, N-618, N-619, N-620, N-621, N-622, N-623, N-624, N-625, N-626, N-627, N-628, N-629, N-630, N-631, N-632, N-633, N-634, N-635, N-636, N-637, N-638, N-639, N-640, N-641, N-642, N-643, N-644, N-645, N-646, N-647, N-648, N-649, N-650, N-651, N-652, N-653, N-654, N-655, N-656, N-657, N-658, N-659, N-660, N-661, N-662, N-663, N-664, N-665, N-666, N-667, N-668, N-669, N-670, N-671, N-672, N-673, N-674, N-675, N-676, N-677, N-678, N-679, N-680, N-681, N-682, N-683, N-684, N-685, N-686, N-687, N-688, N-689, N-69

PGW PROPERTY

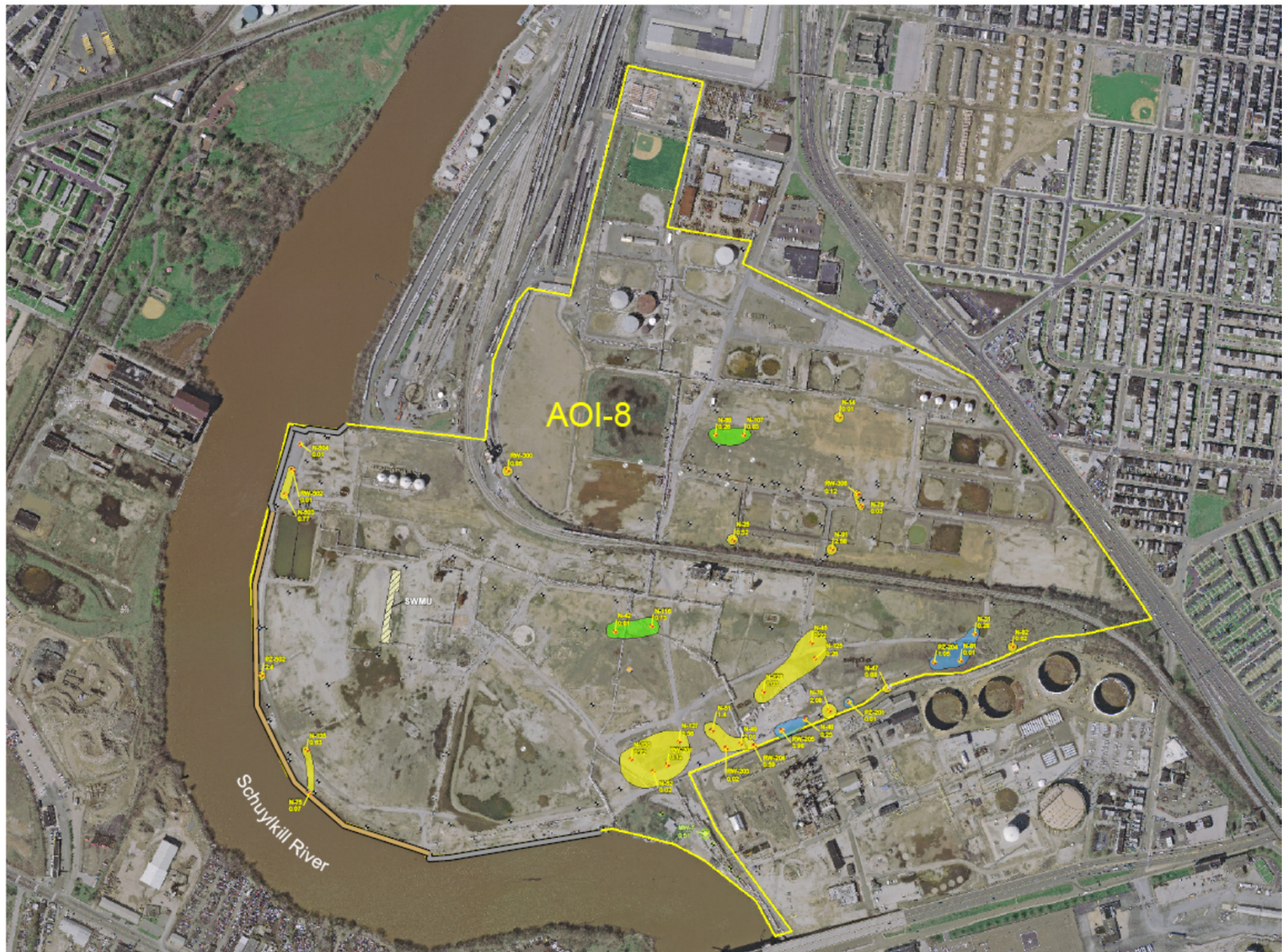
Point Breeze 2nd
Quarter 2008
Report (pg. 32)



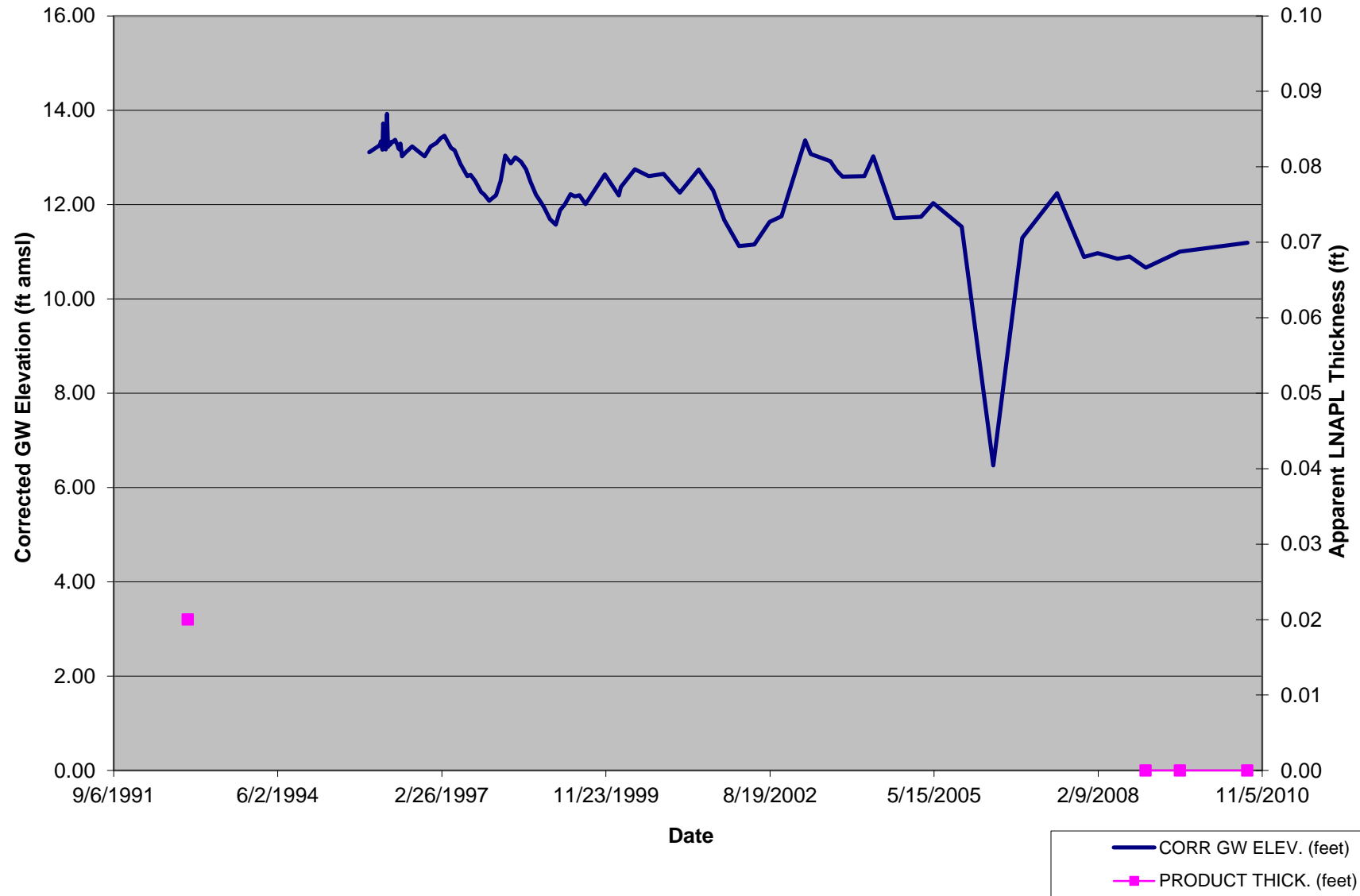
CCR -
Figure 5
data
collected
11/2003



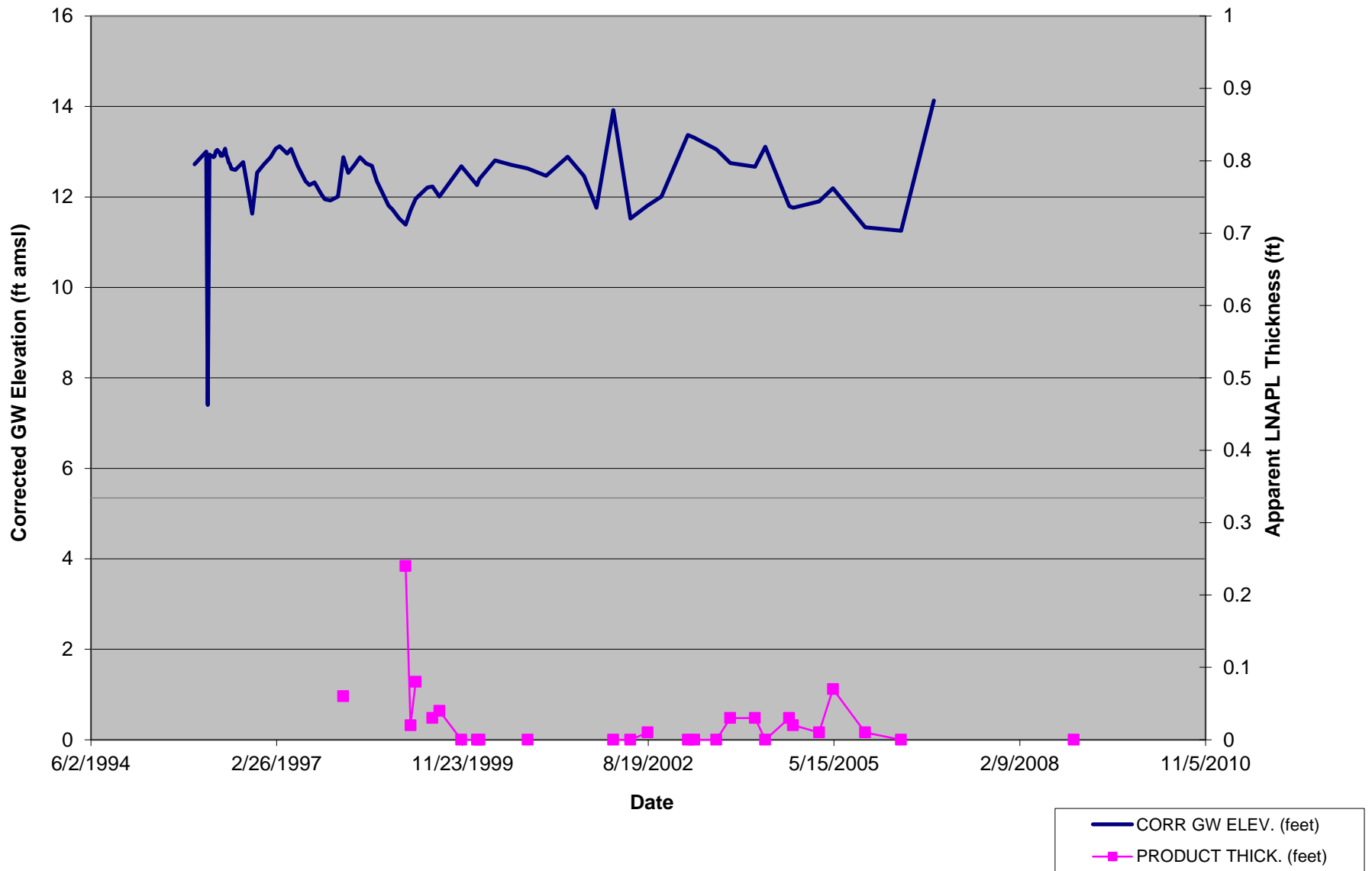
AOI 8
SCR -
Figure 11
10/2003



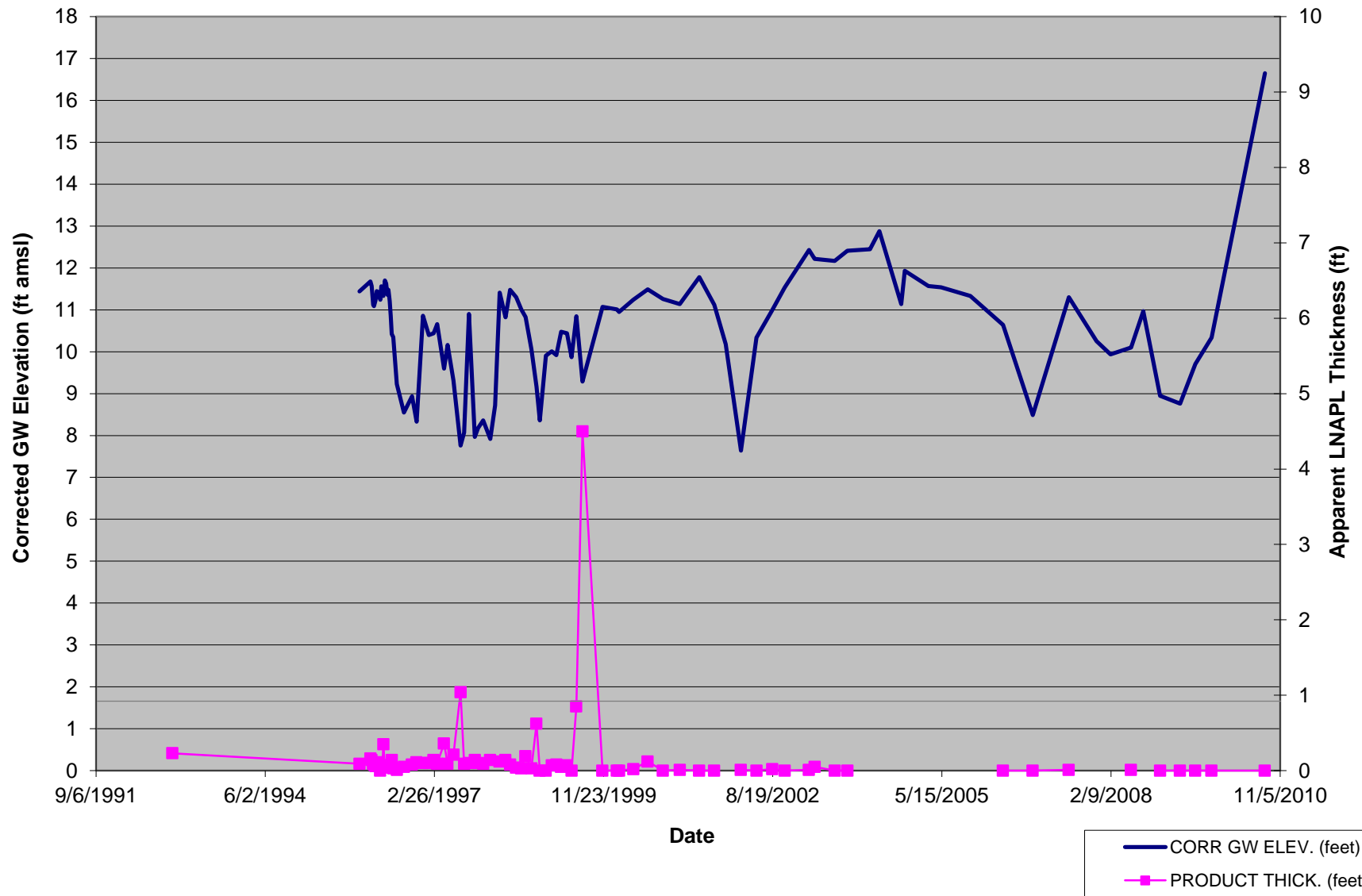
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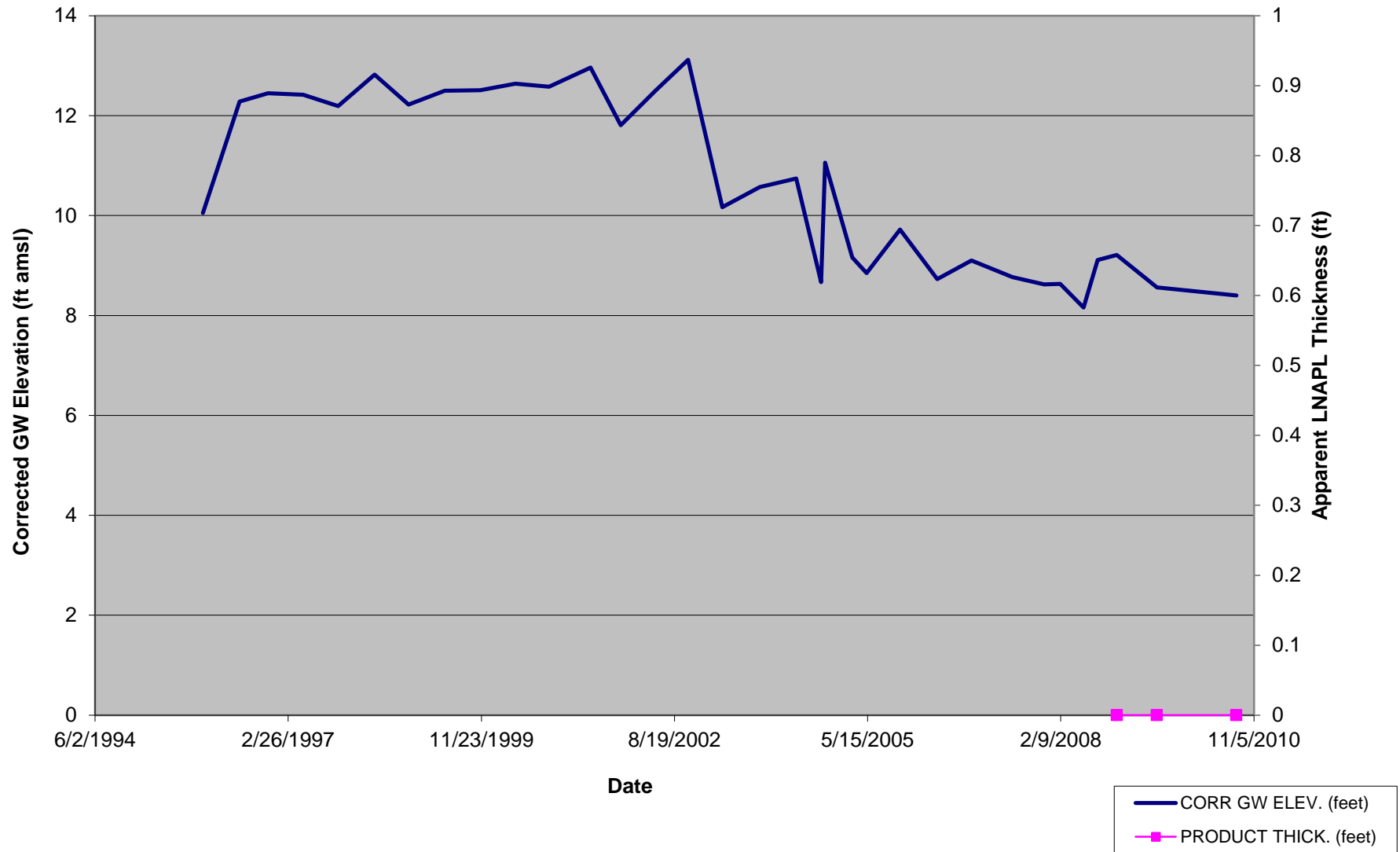
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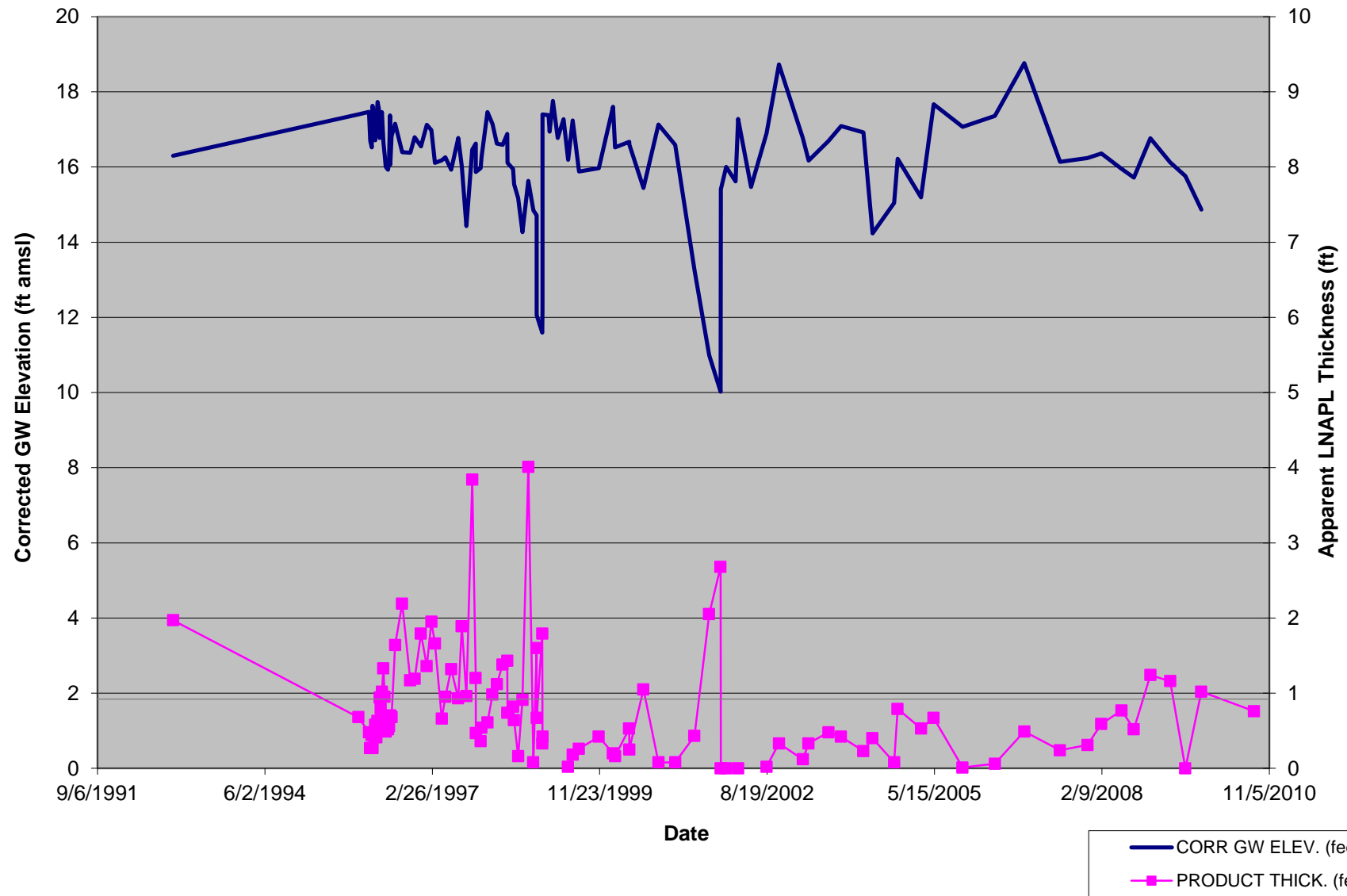
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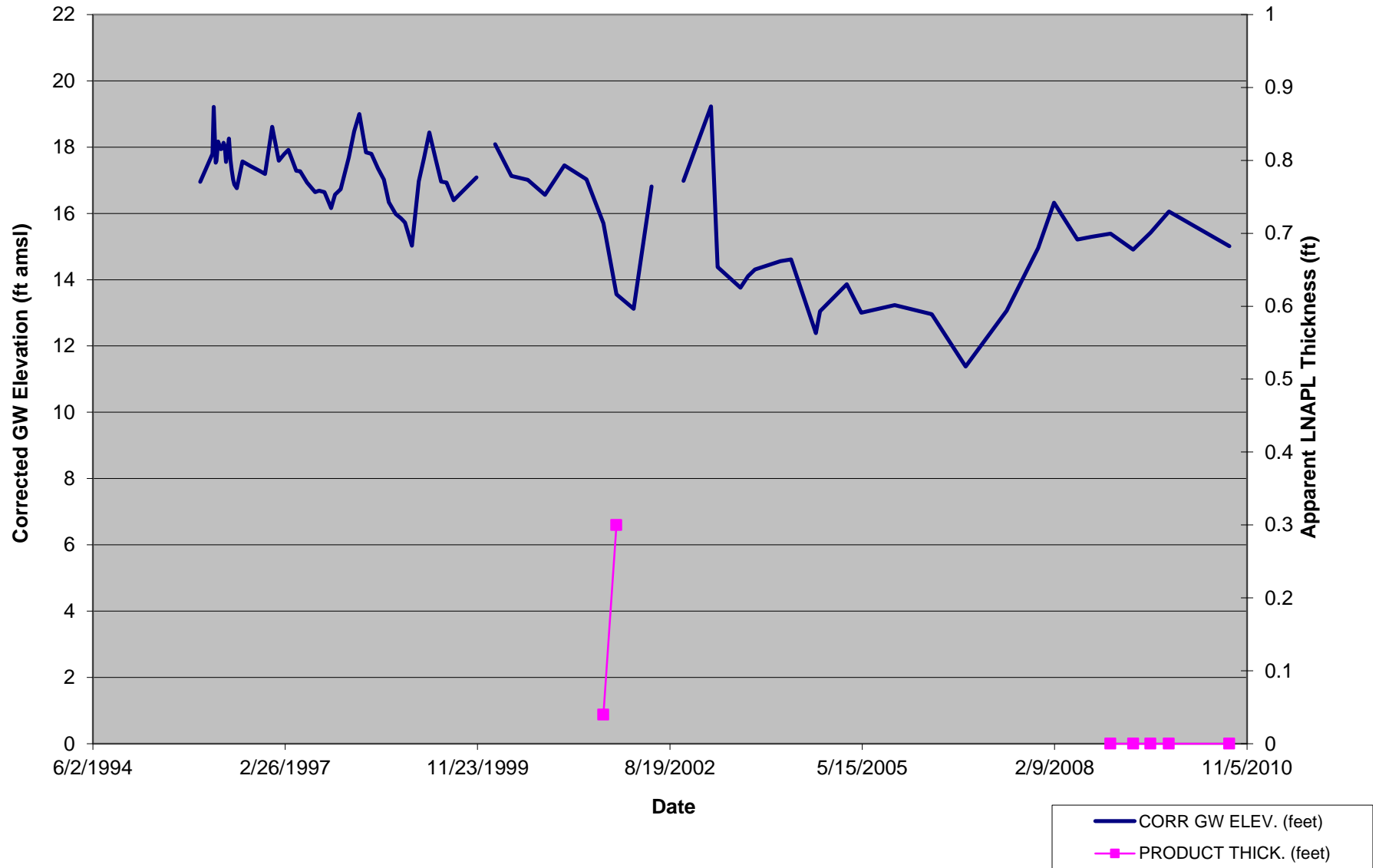
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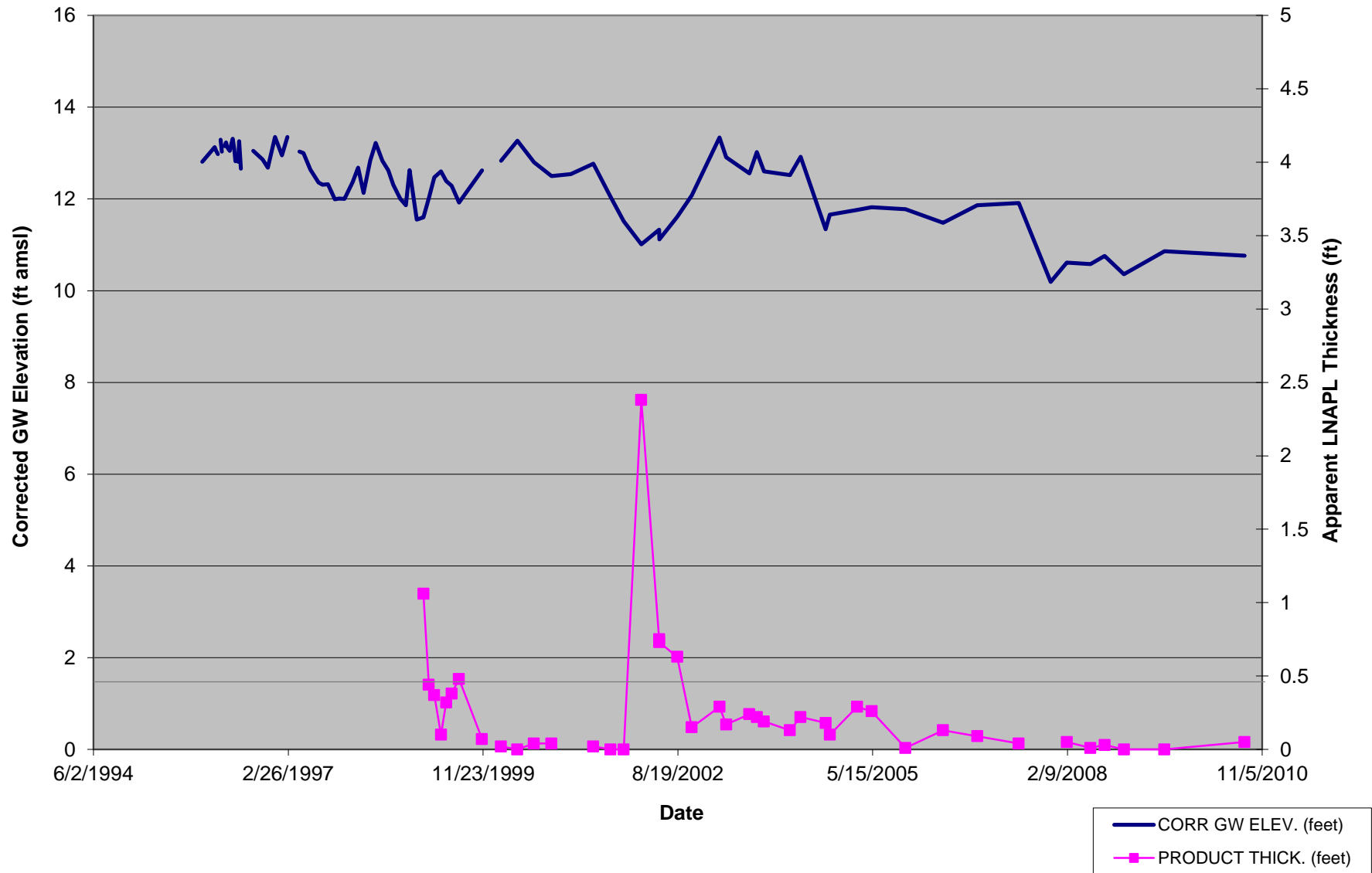
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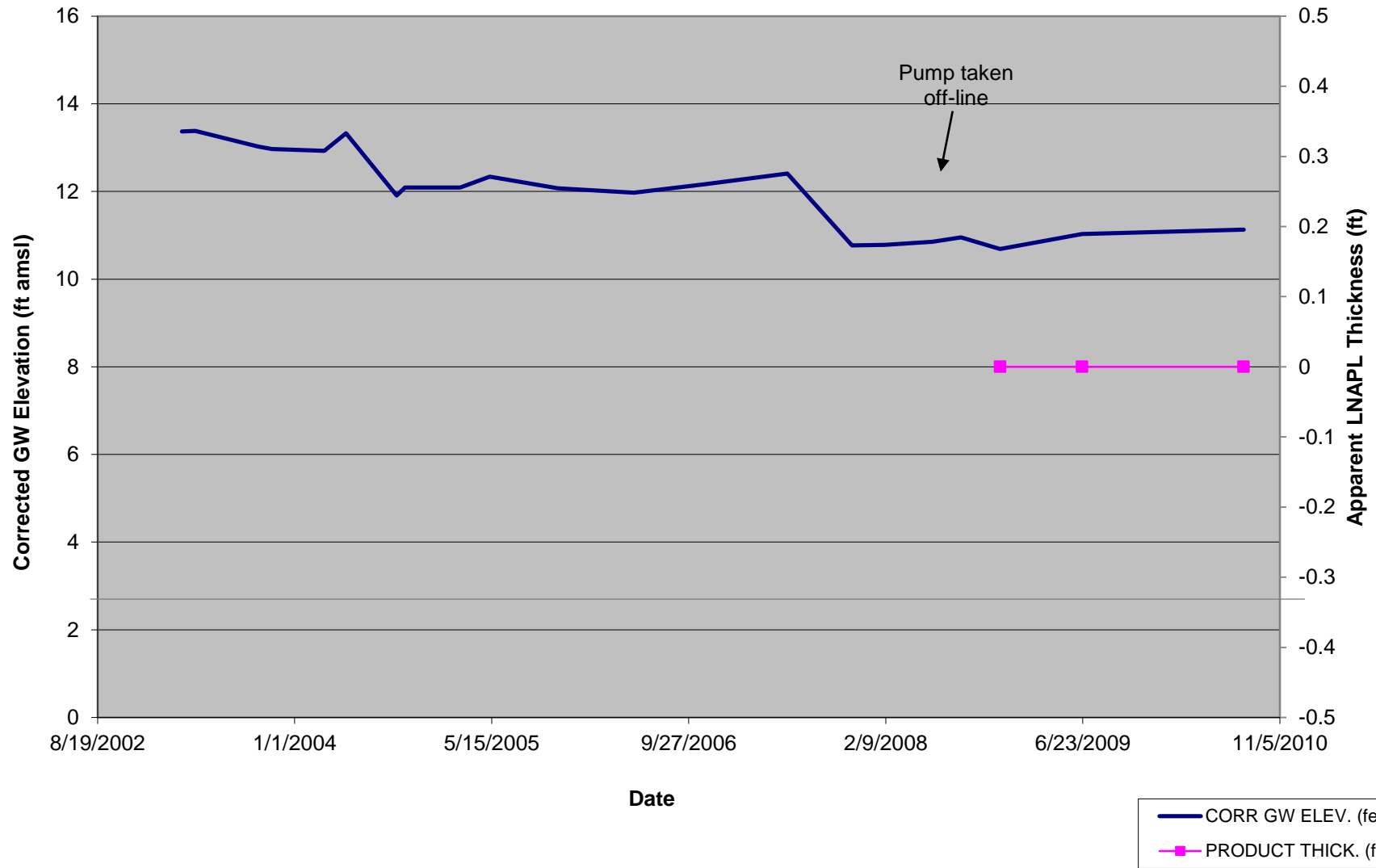
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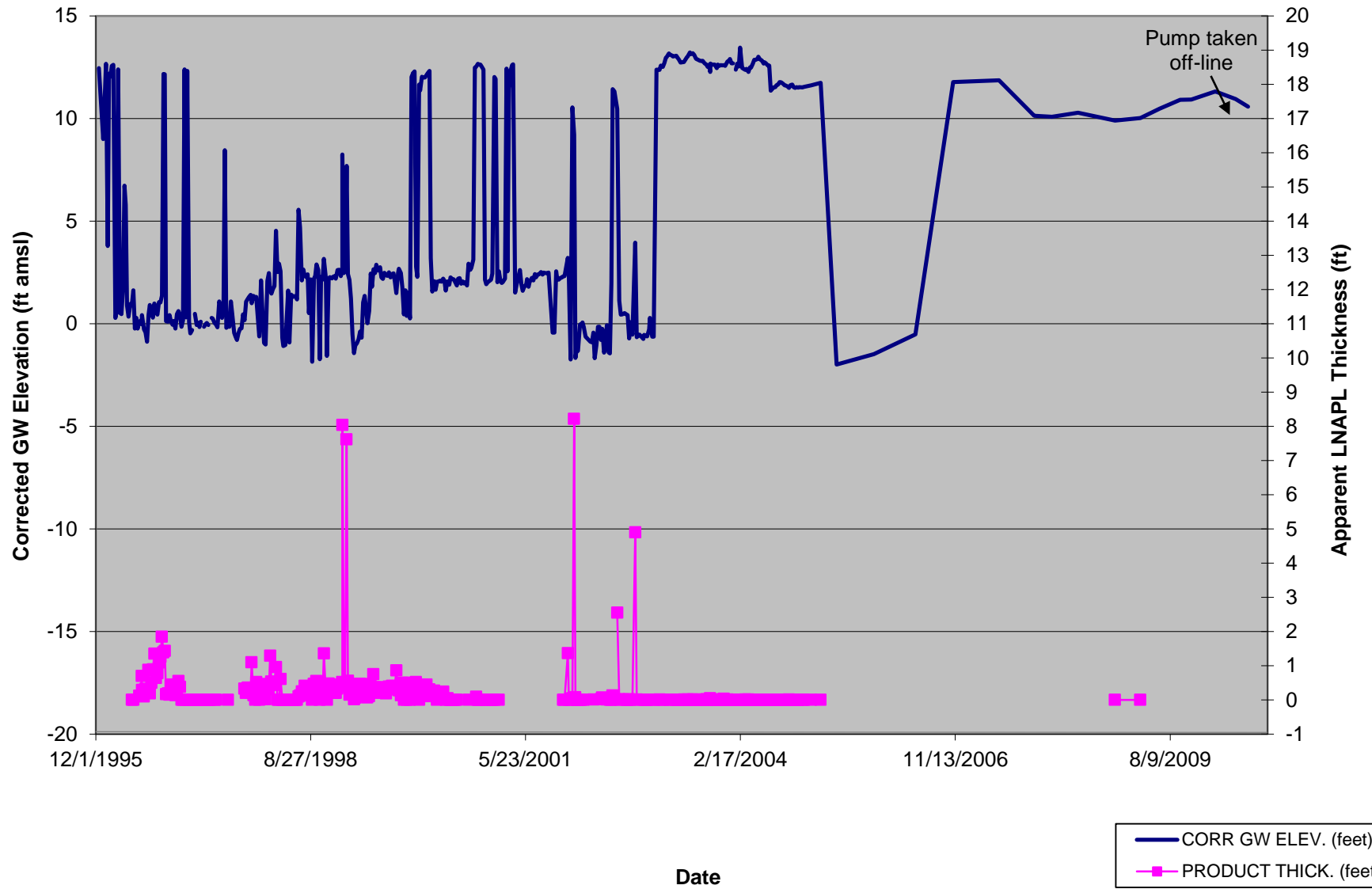
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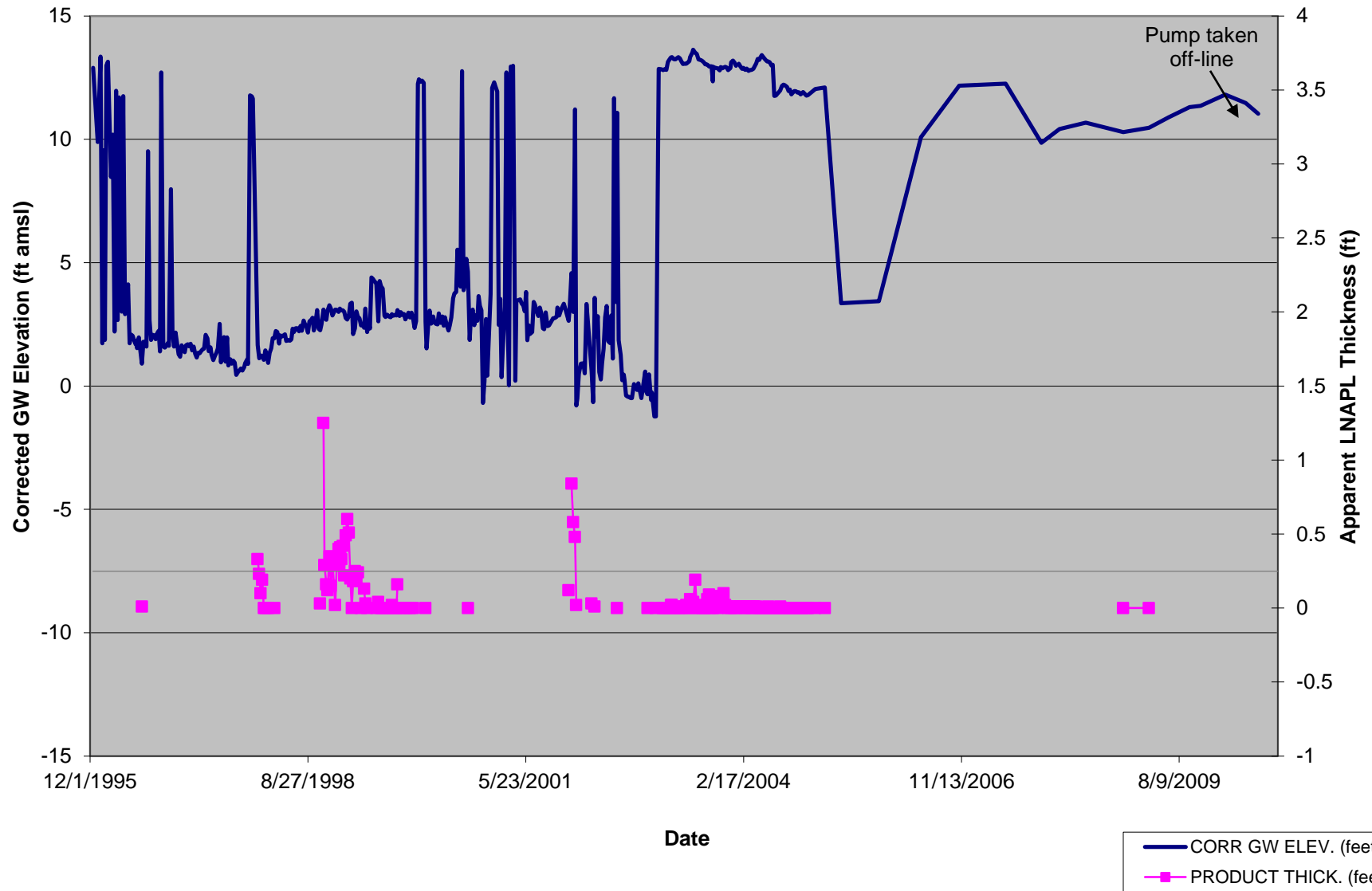
N-87



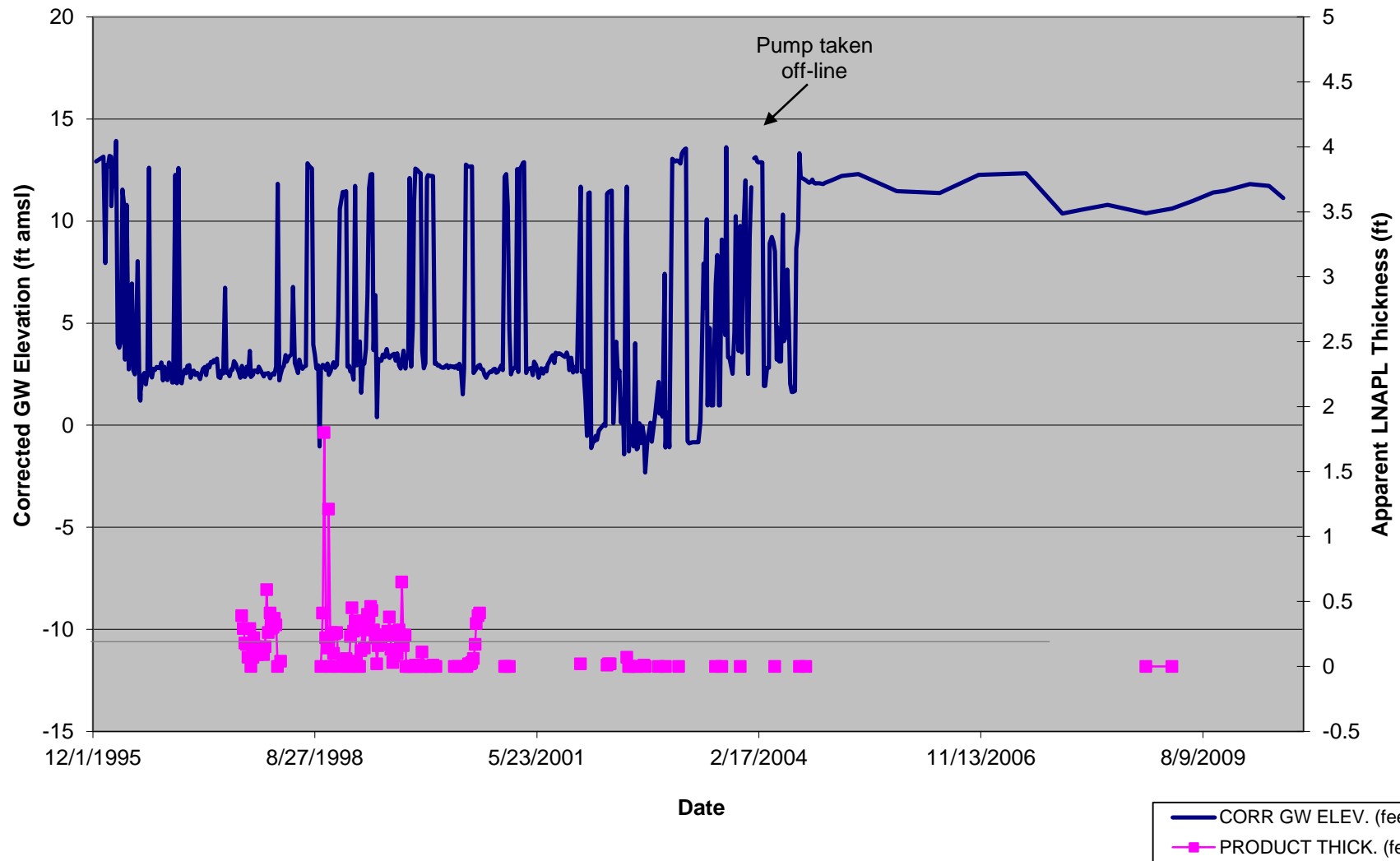
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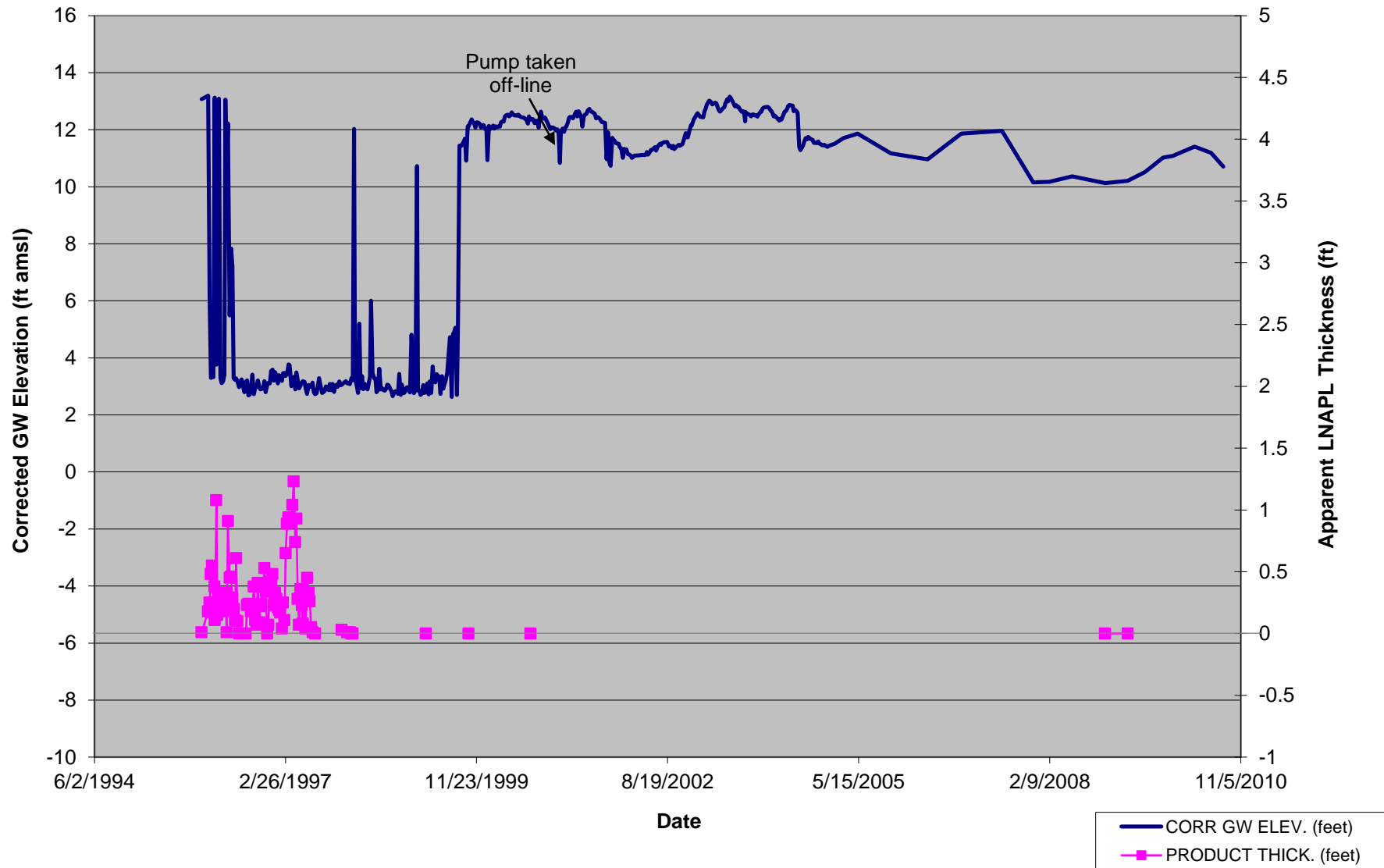
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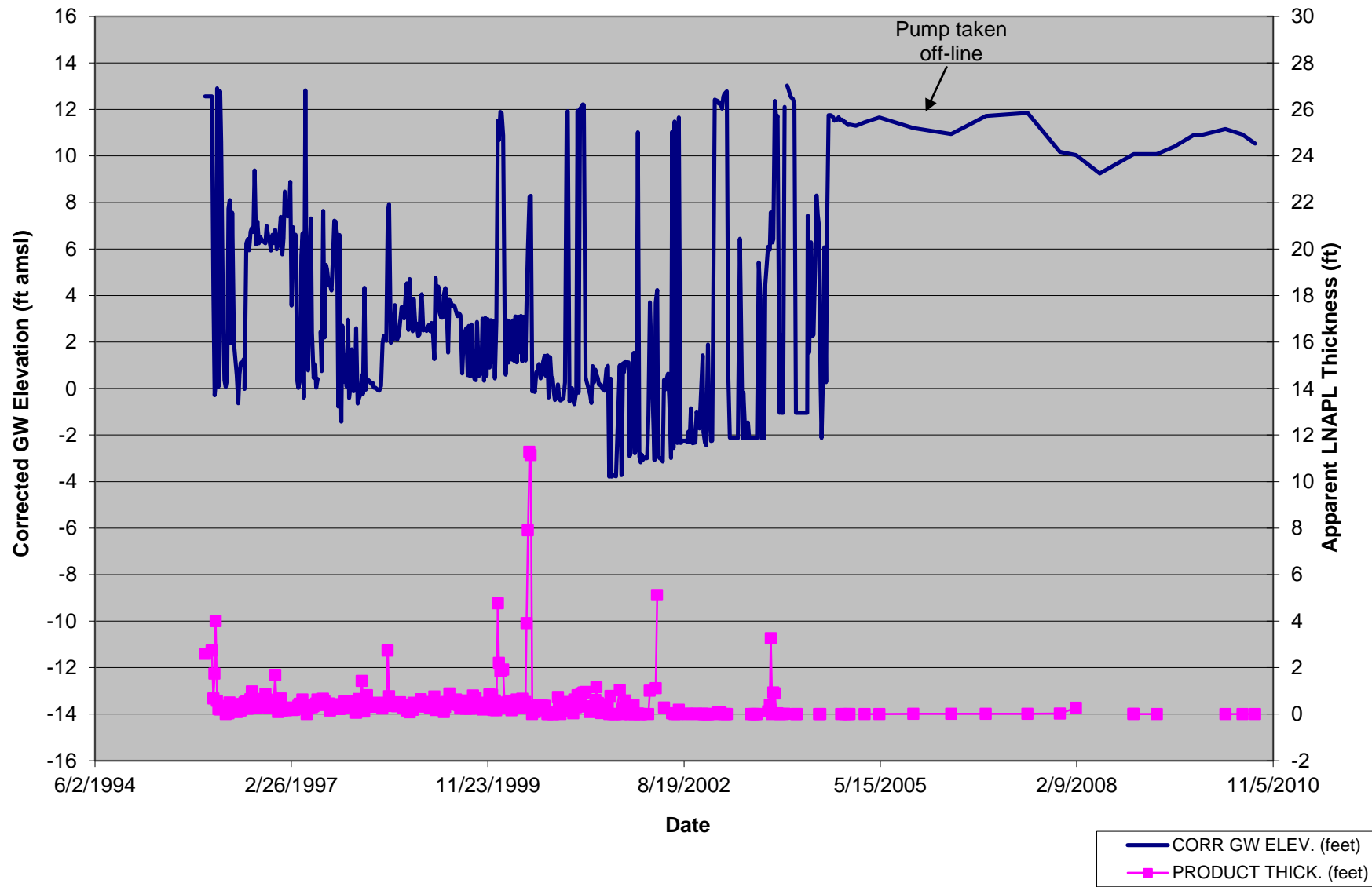
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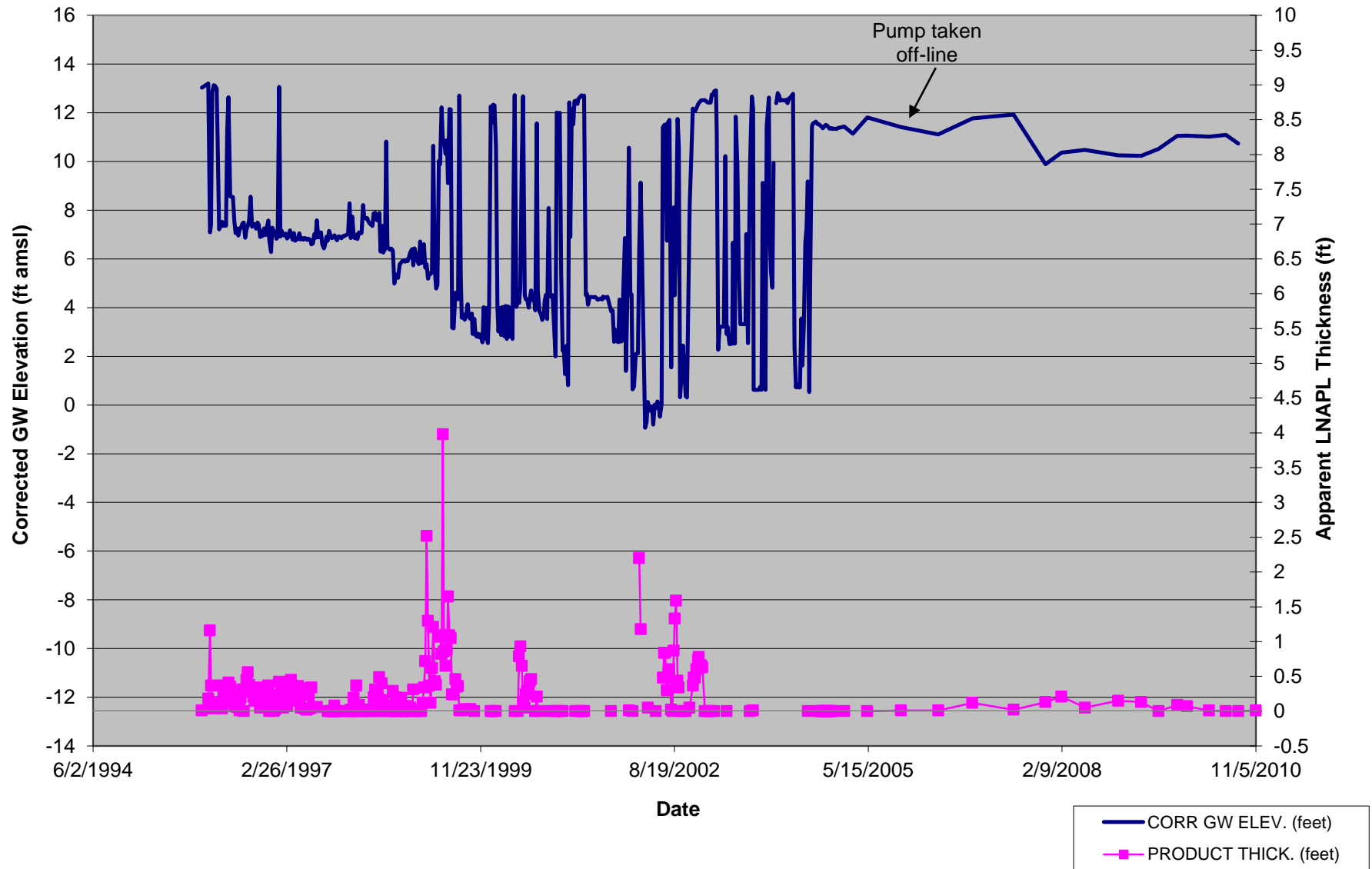
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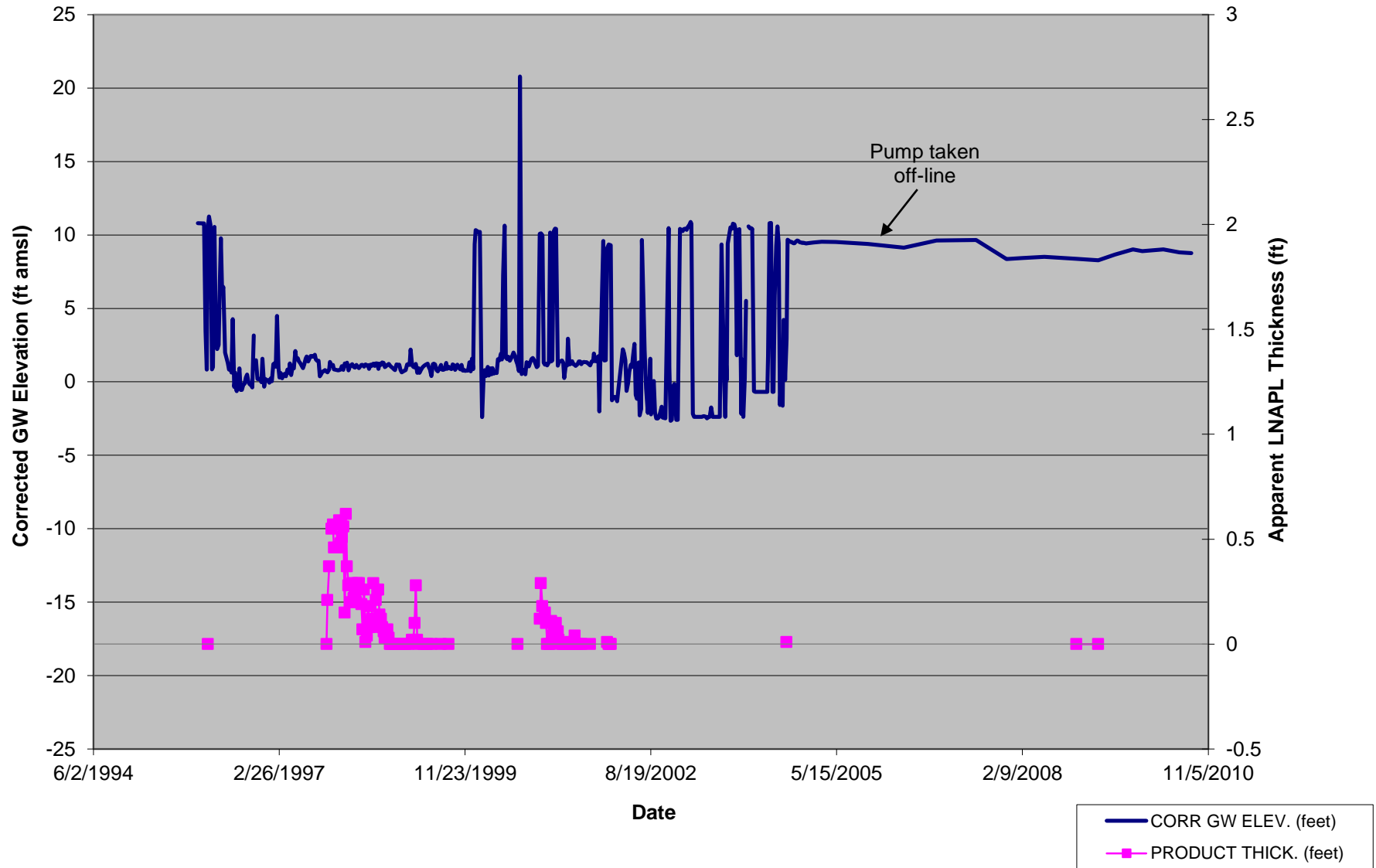
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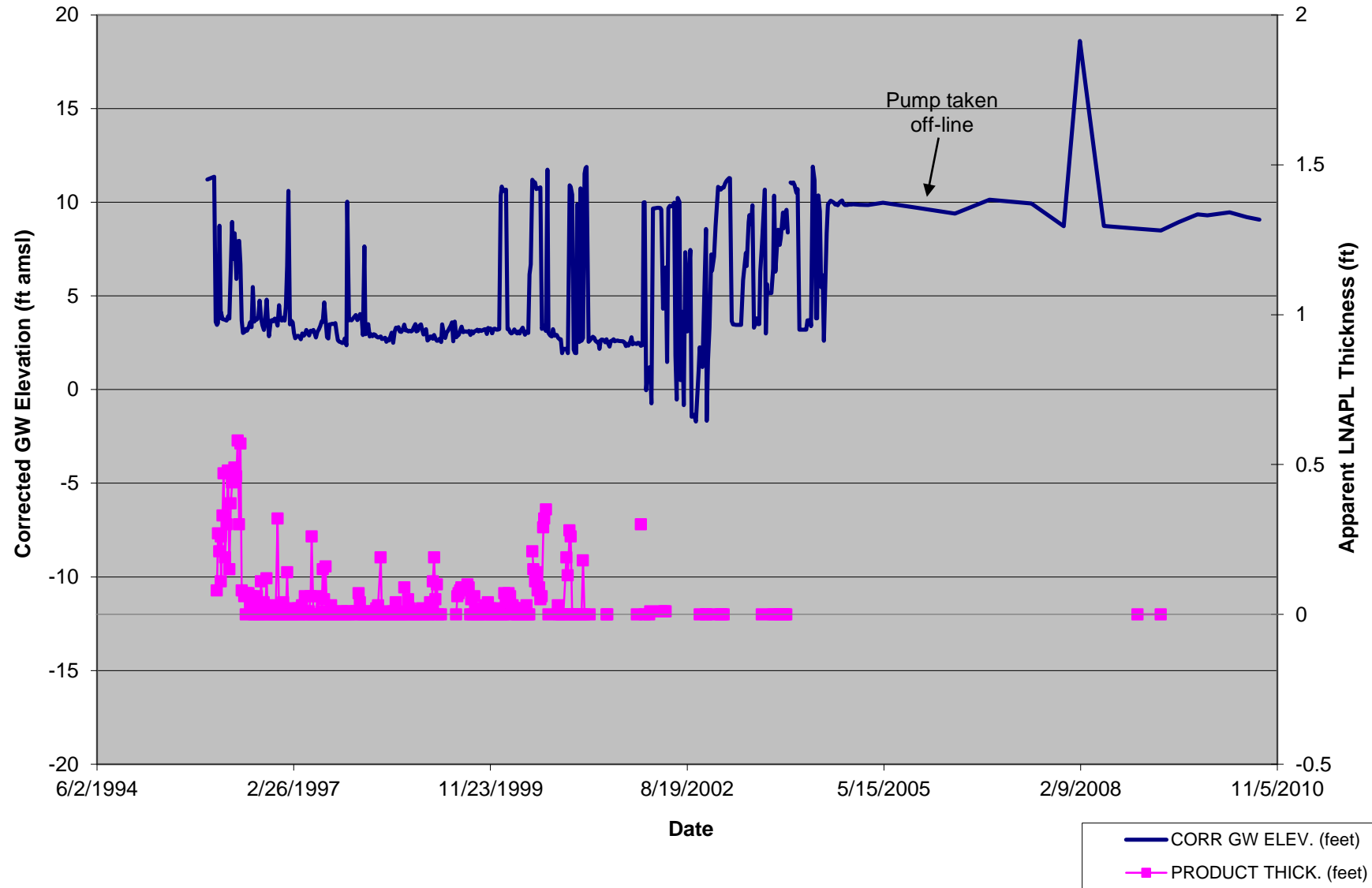
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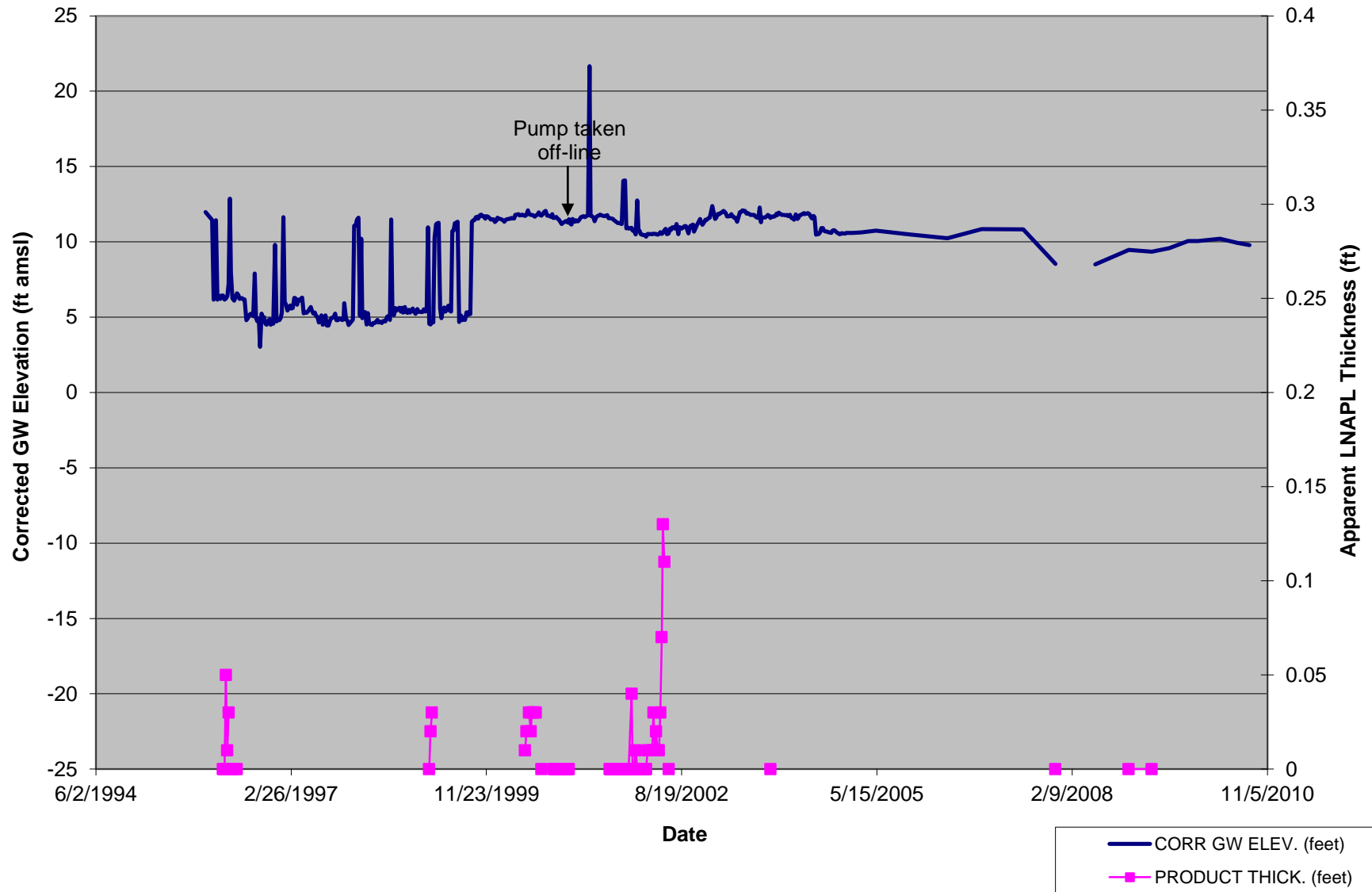
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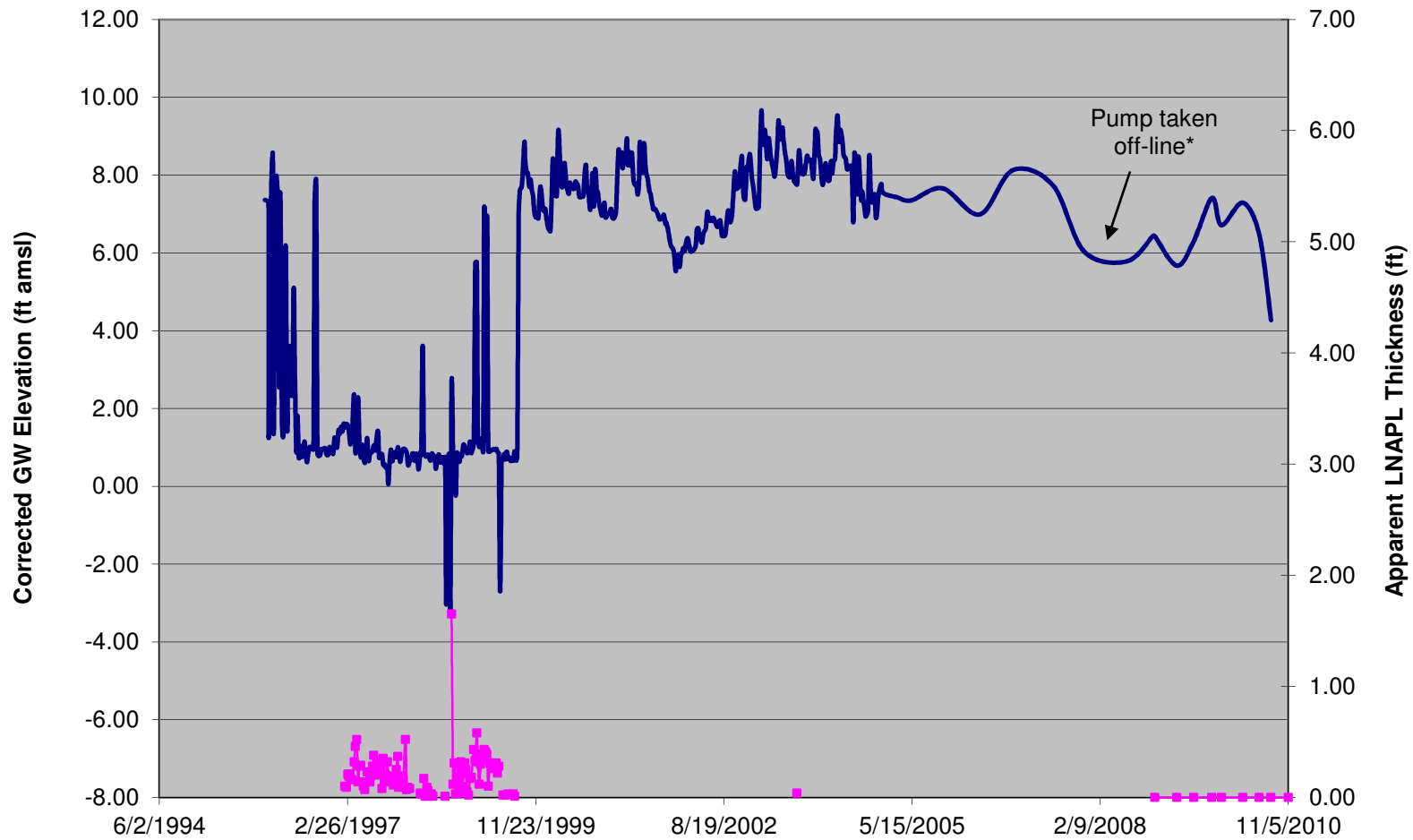
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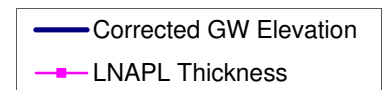
RW-309



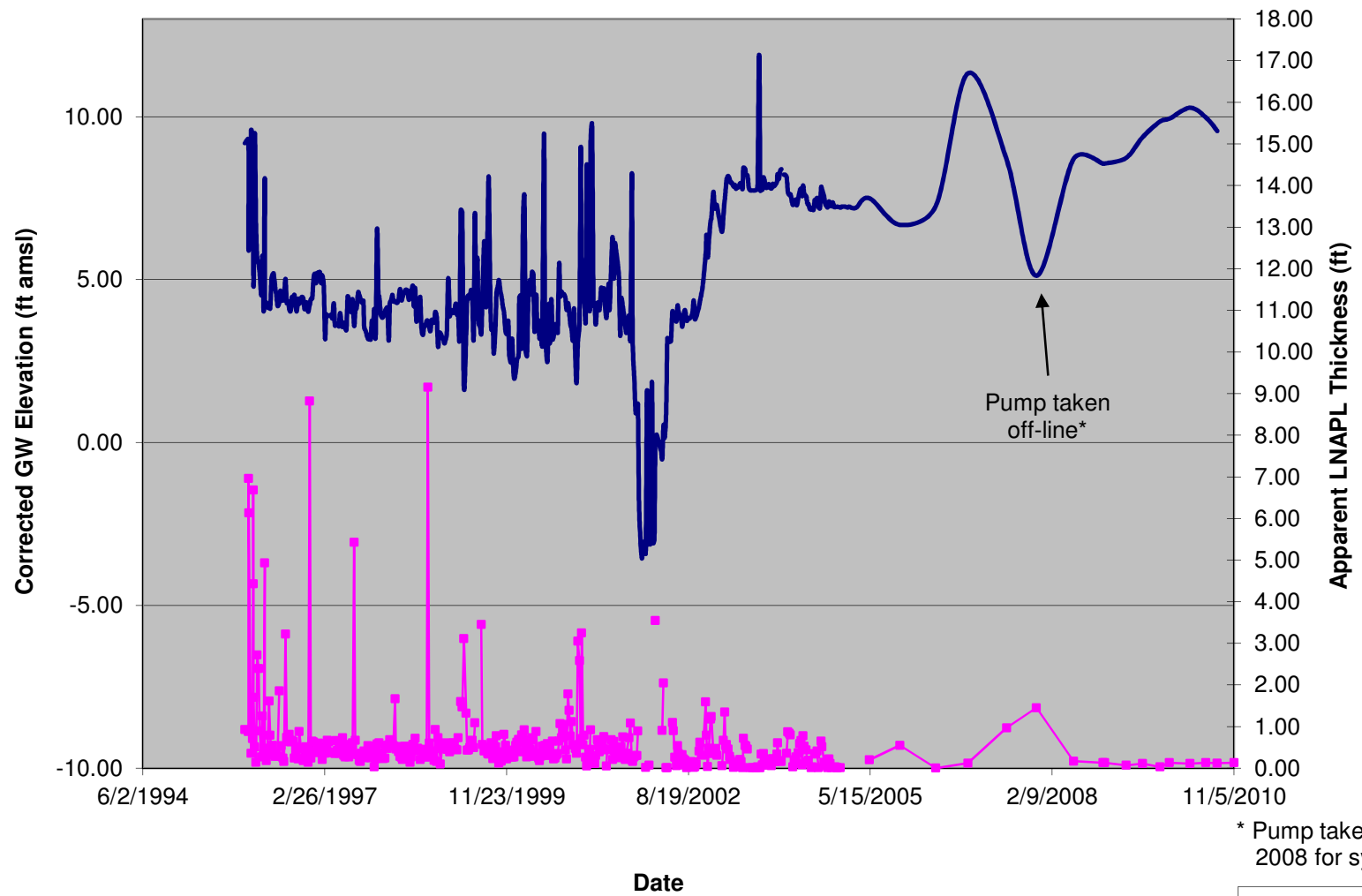
RW-200



* Pump taken off-line in March 2008 for system upgrades

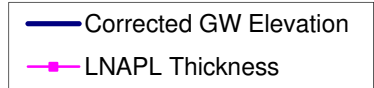


RW-201

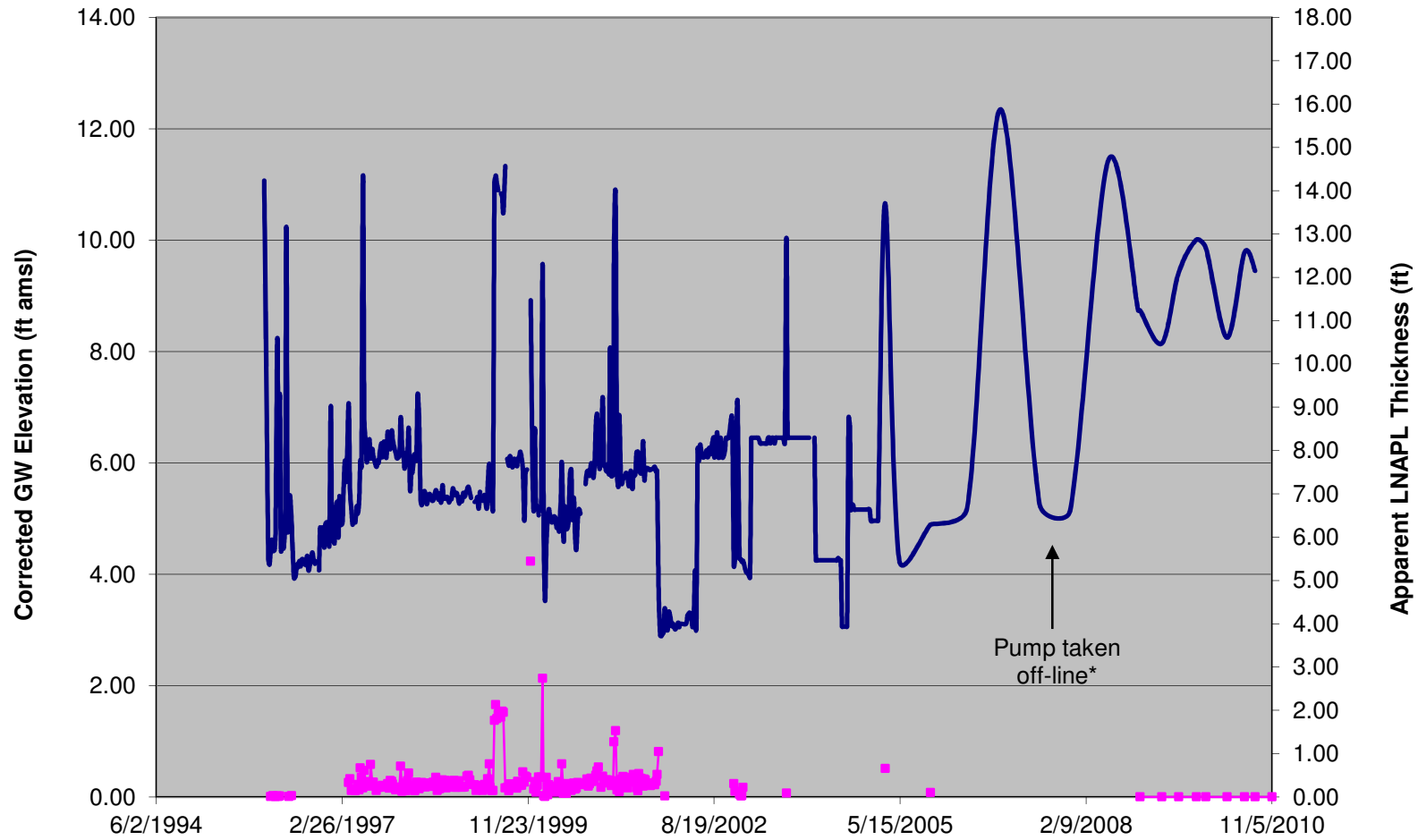


Pump taken
off-line*

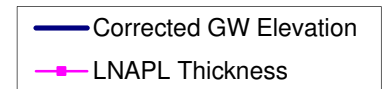
* Pump taken off-line in March
2008 for system upgrades



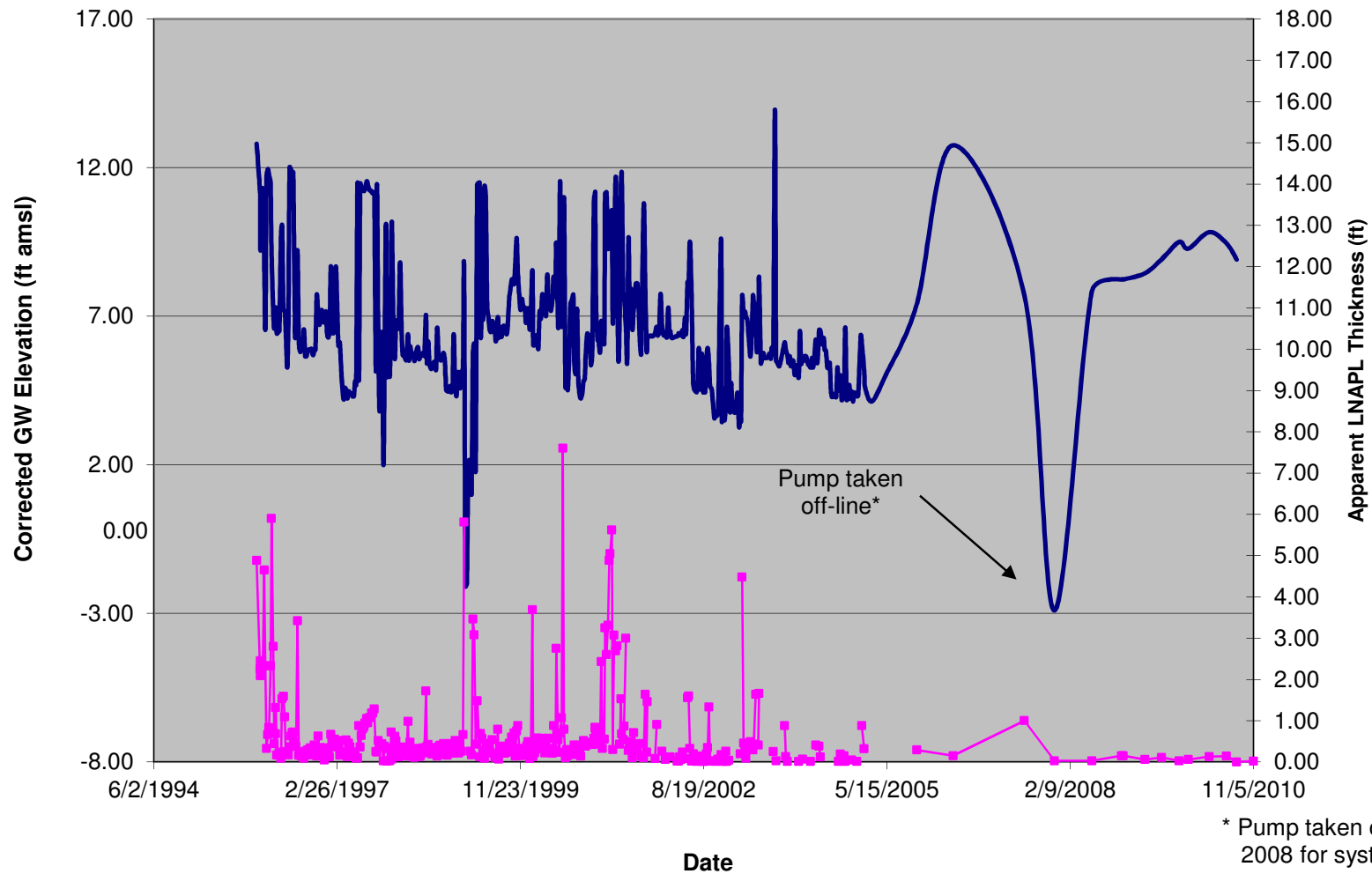
RW-202



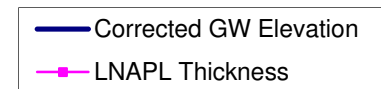
* Pump taken off-line in March 2008 for system upgrades



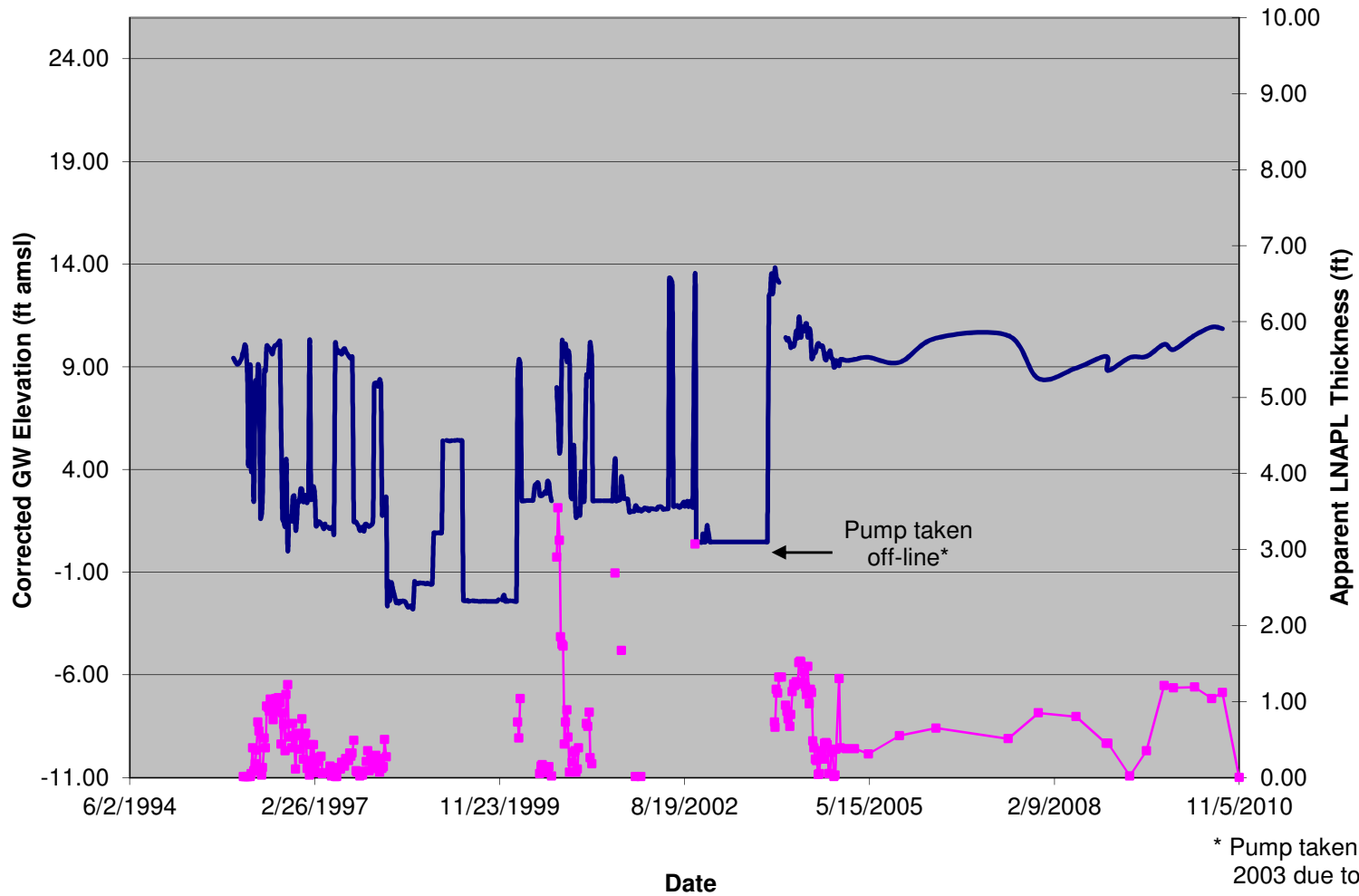
RW-203



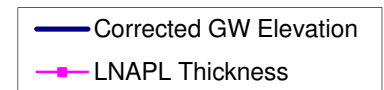
* Pump taken off-line in March 2008 for system upgrades



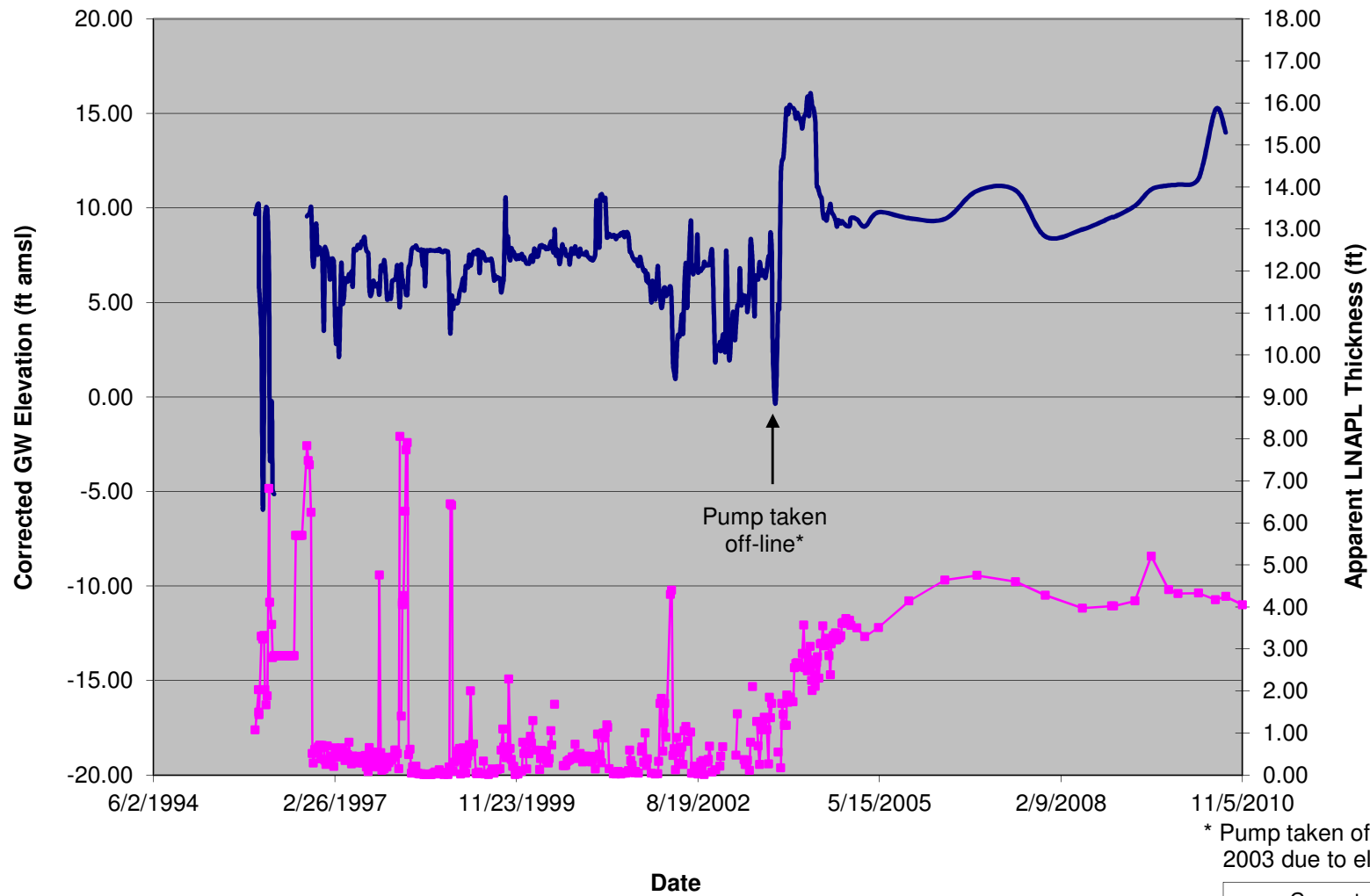
RW-204



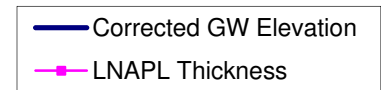
* Pump taken off-line in November 2003 due to electrical problems



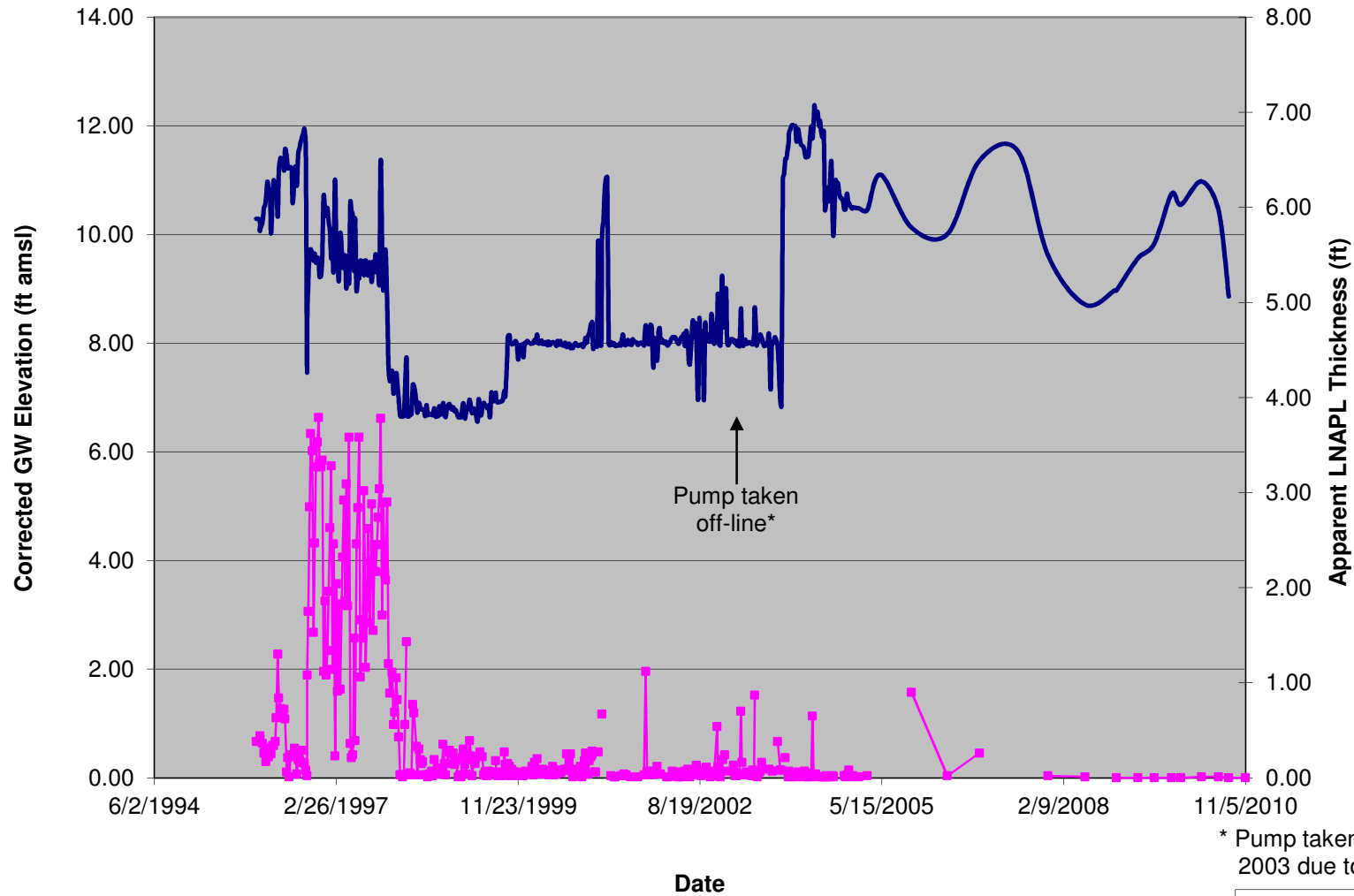
RW-205



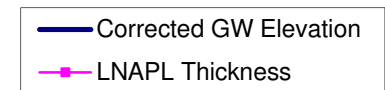
* Pump taken off-line in November 2003 due to electrical problems



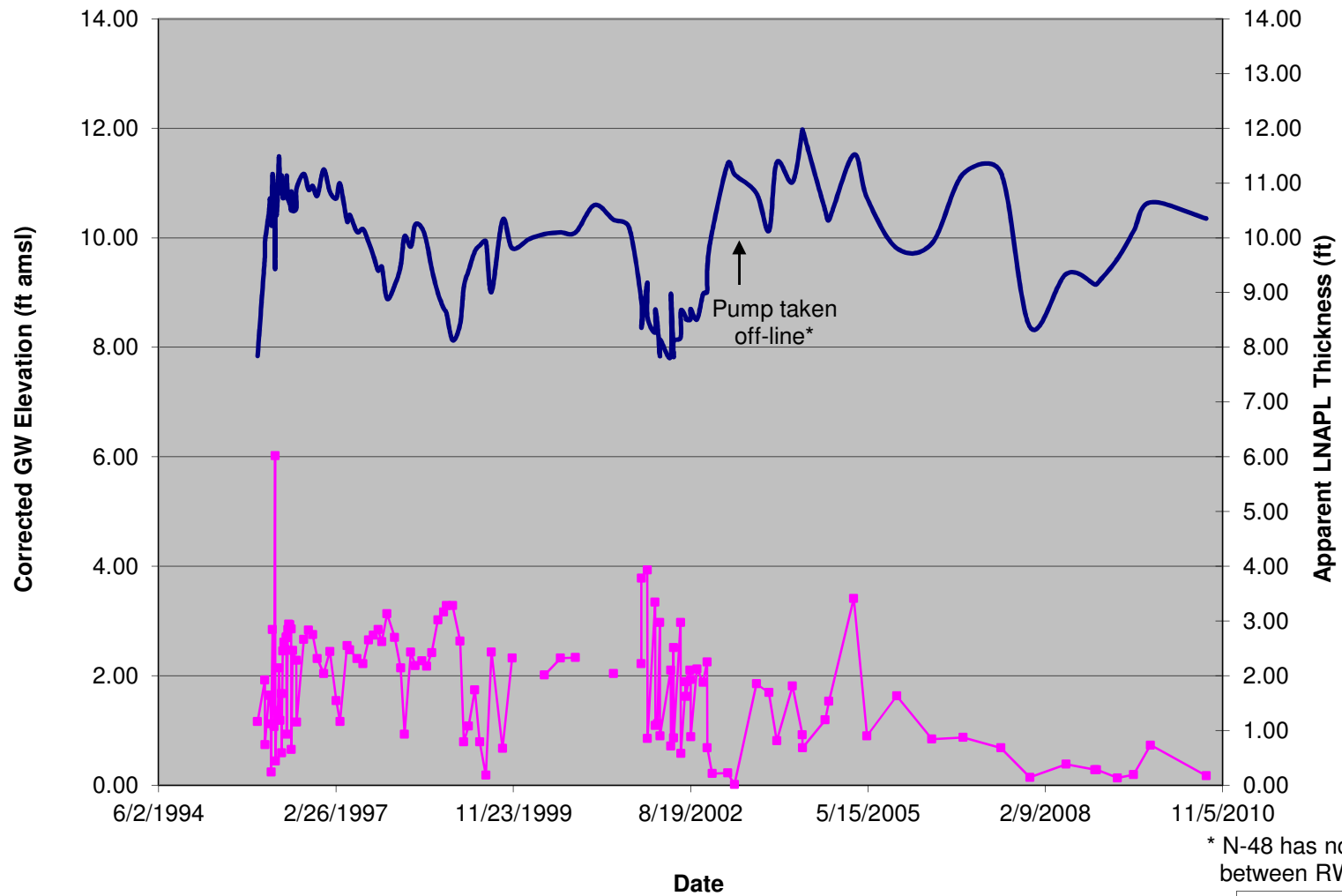
RW-206



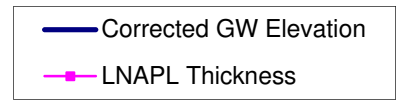
* Pump taken off-line in November 2003 due to electrical problems



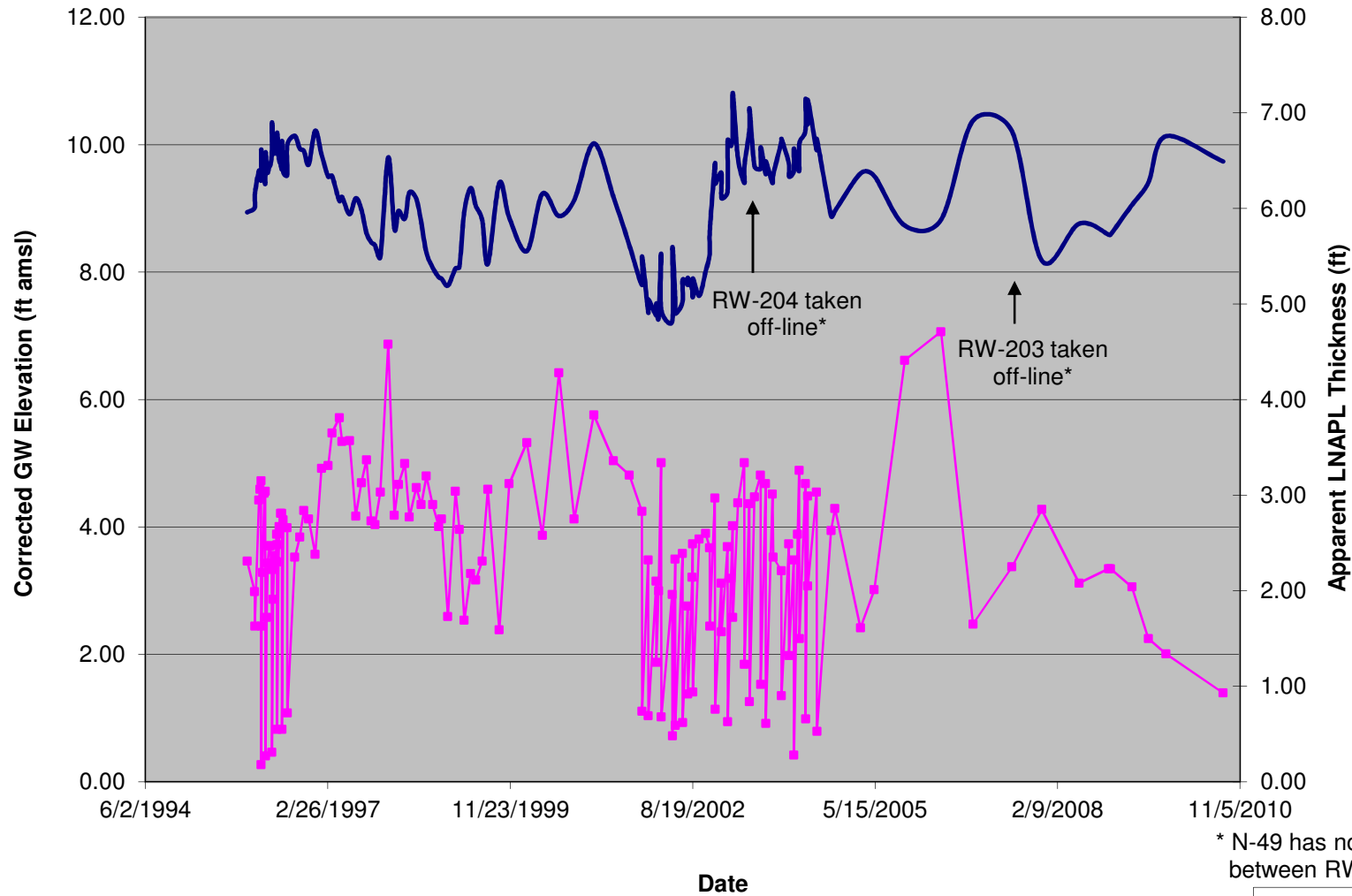
N-48



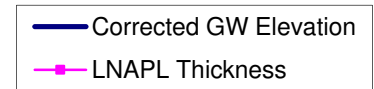
* N-48 has no pump but is located between RW-205 and RW-206



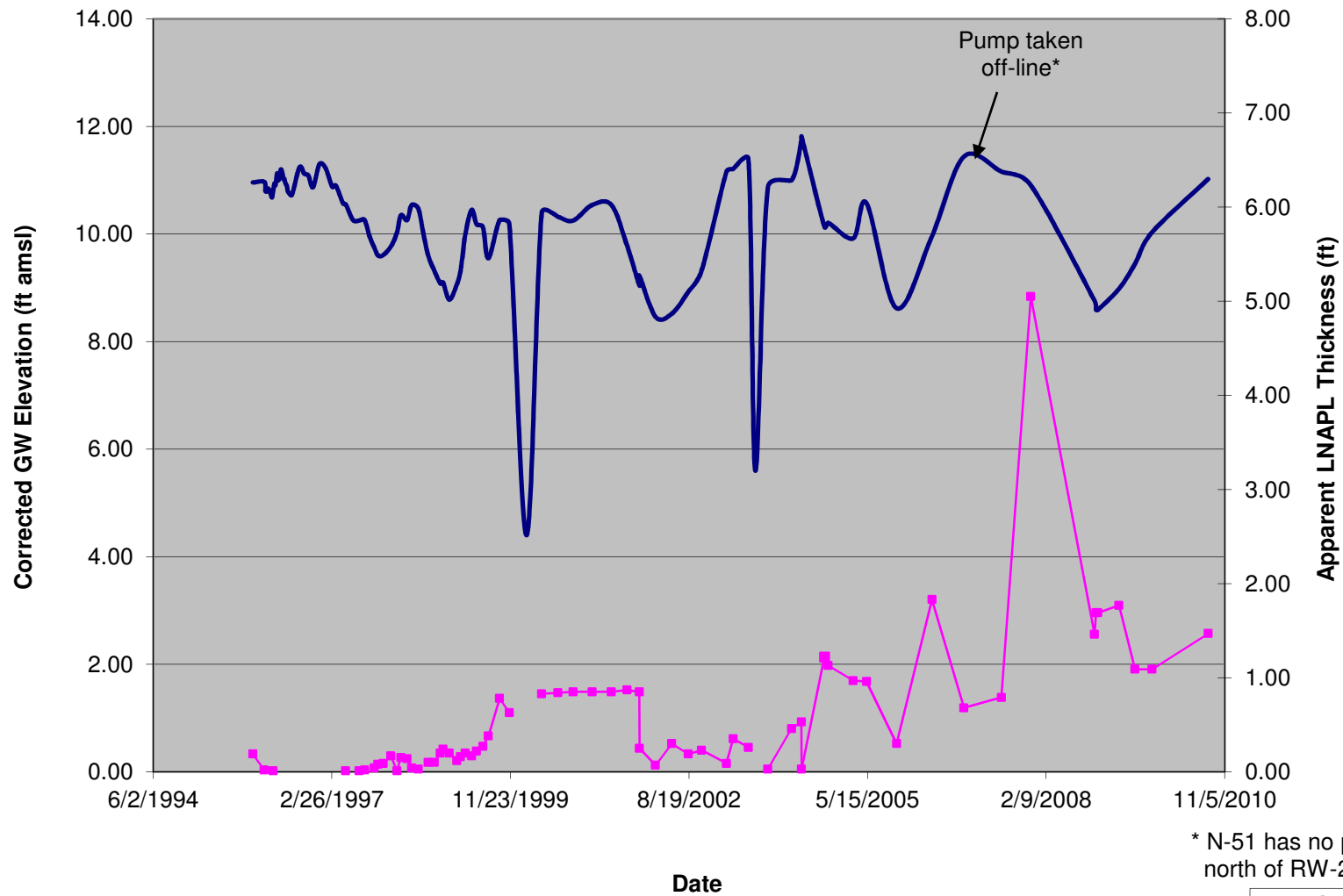
N-49



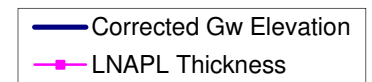
* N-49 has no pump but is located between RW-203 and RW-204



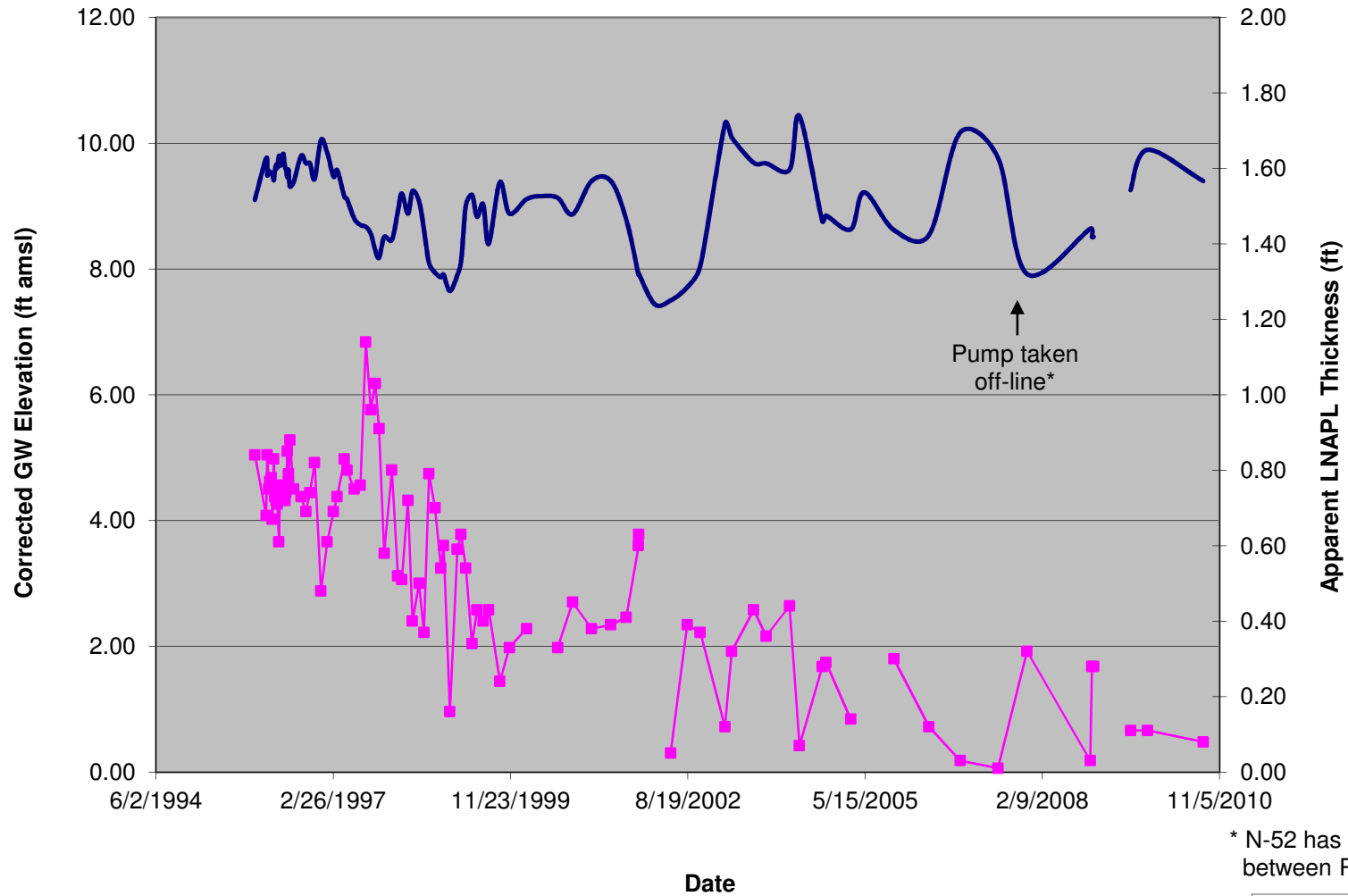
N-51



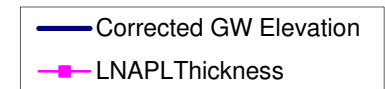
* N-51 has no pump but is located north of RW-203



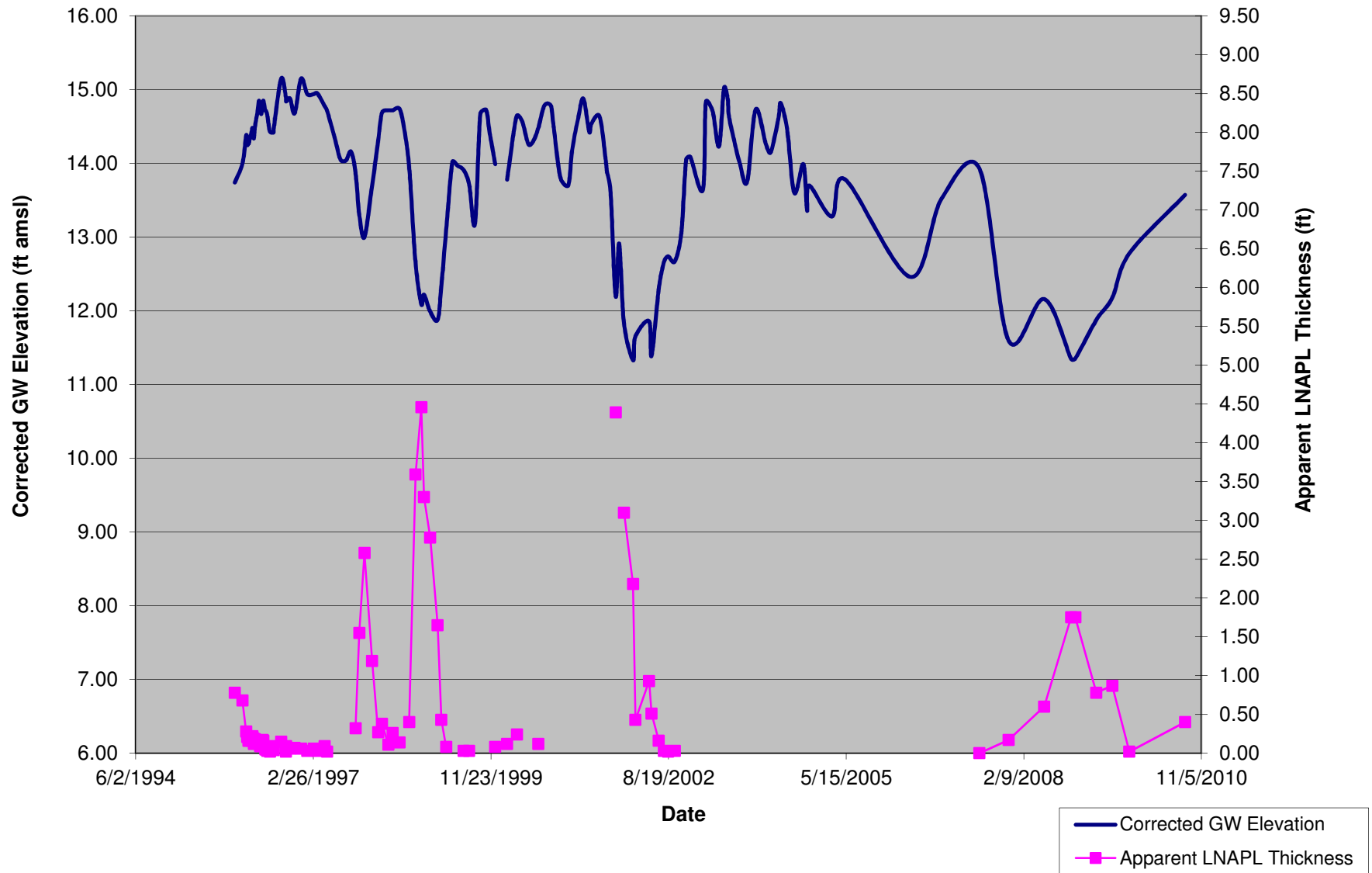
N-52



* N-52 has no pump but is located between RW-200 and RW-201



N-47



N-76

